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- Sensors
- Dosing technology
- Swimming pool Technology
- Disinfection systems



PRODUCT CATALOG 2013

Measurement Control Dosing Disinfection



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DOSAControl DCW 100 Series, Controller

1-channel controller for free chlorine, chlorine dioxide or ozone and temperature



General information

- Mikroprocessor unit with 2-line LCD, backlit
- Residual data storage on power failure
- Programmable switch-on delay
- 2 switch points with adjustable direction of action
- Choice of control modes:
 - ON/OFF controller, option with hysteresis
 - Proportional, proportional-integral controller (P-, Pl-controller) as pulse-interval, pulse frequency (PFM) or continuous controller
 - Hysteresis freely adjustable over full range
 - P-range X_p freely adjustable over full range
- 3 relay outputs as floating contacts, max.
 Contact loading 250V/6A, max. 550 VA, of which:
 - 2 x control contacts
 - 1 x alarm contact with adjustable time delay
- 1 analogue output 0/4 20 mA, as measurement or continuous controller output
- Temperature input for Pt 100 and automatic temperature compensation
- RS 485 interface (optional), various interface protocols, e.g. ProfiBUS DP
- Enclosure in plastic, protection class IP 65
- Dimensions (Width X Height X Depth): 160 x 165 x 85 mm

Special feature

In conjunction with KCL sensors for free chlorine, KCLD for chlorine dioxide and KCOZ for ozone, the controller is fitted with a fully automatic, electro-chemical operating sensor cleaning system (ASC)!

DOSAControl DCW 100		CL	CLD	О3
Measurement and control range	mg/I Cl ₂ mg/I ClO ₂ mg/I O ₃	0 20.00	0 4.00	0 4.00
Resolution		0.01	0.01	0.01
Suitable sensors		KCL	KCLD	KCOZ



Order Code									
DOSAControl	DCW 10	0							
		Meas	ureme	nt con	trol pa	ramete	ers	Suitable sensors	
	CL	Free o	chlorin	е				KCL	
	CLD	Chlori	ine dic	xide				KCLD	
	О3	Ozon	е					KCOZ	
			Meas	sureme	ent rang	ge			
		4		.00 mg					
		20	0 2	0.00 m	g/l on	ly free	chlorin	е	
				Conn	ection	to the	electri	supply	
			0	230 V	AC, +6	5/-10%,	40/60	Hz	
			1	117 V	AC, +6	5/-10%,	40/60	Hz	
			2	24 VA	C, +6/	′-10%, <i>4</i>	10/60 H	Z	
					Front	panel			
				D	DOSA	Contro	ol		
				Χ	Custo	mer-sp	pecific		
						Fully (automo	ated sensor cleaning:	
					-	No fu	lly auto	mated sensor cleaning system	
					ASC			ated sensor cleaning system	
					7.00	for se		oes KCL and KCLD	
							Optio	ns:	
						-	None		
						RS		interface RS 485,	
						PB	Profib		
								Standard cable:	
							AK	Standard cable, 5 m	
DCW 100	CL	4	0	D	-	-	AK	(example order)	
Voursolootion									
Your selection DCW 100	<u> </u>				1				
DC# 100	L	1			1				



DOSAControl Series DCW 110, Controller

1-channel controller for:

pH, redox (ORP), conductivity, free chlorine, total chlorine, chlorine dioxide, ozone, hydrogen peroxide, peracetic acid, oxygen



General information

- Microprocessor unit with large, backlit LCD
- All measurement and operating values are displayed simultaneously on one display
- Operation via buttons
- Data input (according to model)
- Temperature input (0 100°C) for Pt100 temperature sensor
- 2 setpoint relay outputs (ON/OFF, PI or PWM)
- 2 proportional outputs for dosing pumps
- 1 relay output for automatic sensor cleaning
- 1 alarm relay output
- 1 current output 0/4-20 mA for the measurement value (set as a control or recorder output)
- 1 current output 0/4-20 mA for temperature (recorder output)
- 2 digital inputs for level measurement
- 1 digital input for stand-by
- 1 digital input for flow monitoring
- 1 contact water meter input for fresh water top-up
- RS 232 interface for connecting a modem, a data logger, a printer or a PC for remote control
- Enclosure in ABS plastic, protection class IP 65
- Dimensions

(Width X Height X Depth): 229 x 204 x 116 mm

Technical specifications

DOSAControl DC	W 110	PH	RH	CD	O2	MF
Measurement and control range	pH mV mS/cm mg/I O ₂ mg/I Clo ₂ mg/I ClO ₂ mg/I O ₃ mg/I H ₂ O ₂ mg/I PES	0 - 14.00	-1000 to +2000	0 – 299.9	0 - 20	0 - 200.0 0 - 20 0 - 10 0 - 2000 0 - 2000
Resolution		0.01 pH	1 mV	0.01 µS 0.1 µS 1 µS 0.01 mS 0.1 mS	0.01 mg	0.001 mg 0.01 mg 0.1 mg 1 mg
Probes Sensors		pH electrodes	Redox electrodes	div. types	DOSASens	DOSASens

The ETEP and ETE sensor types are suitable for temperature compensation.



Options

DCW 110 COM

Central unit for data collection from the "DCW 110" controllers in a network. With the PC software "Master Comm", the DCW 110 COM facilitates remote control of up to 32 devices - locally via RS232 interface or remotely via PSTN and GSM modem. It is possible to record the operating status of each controller in real-time, to program it, to display all the events and alarms which have occurred and to print the activity of all the connected devices or to create appropriate graphics and charts of measurement values. It is also possible to output an SMS message via the GSM modem to one or more of the numbers entered. Wall-mountable housing in IP 65. The PC "Master Comm" software is included.

DCW 110 LIP-D

Connects all the controllers fitted with an RS232/422/485 serial interface to an Ethernet network with 10 T-Base speed. Wall-mountable housing IP 65.

DCW 110 COMM1U

GSM modem (mobile phone) for PC with USB port. incl. lead and power supply.

DCW 110 COMM2

Modem for all controllers with serial interface. Operates with PSTN protocol. Wall-mountable housing, protection class IP 65.

DCW 110 COMM5

External modem for DCW 110, installed in a wall mountable housing, protection class IP 65. Operates with GSM protocol (mobile phone), incl. leads and power supply.

DCW 110 COMM6

GSM modem (mobile phone) with 2 additional digital inputs.

When operating an input (NO), the modem sends the corresponding SMS. Wall-mountable housing in IP 65.

DCW 110 COMM7

GSM modem (mobile phone) with 4 additional digital inputs. When operating an input (NO), the modem sends the corresponding SMS.

Wall-mountable housing IP 65.

DCW 110 COMM8

GSM modem (mobile phone) with 4 additional digital inputs. When operating an input (NO), the modem sends the corresponding SMS, 4 relay outputs (85 - 264 VAC-50/60 Hz.) programmable via SMS, 4 connection outputs for dosing pumps Version "IS and MF" programmable via SMS. Wall-mountable housing, protection class IP 65.



DOSAControl DCW 110					
		Meas	uremen	t and control parameters	
	PH	0 – 14	.00	На	
	RH	-1000	to +100	00 mV	
	CD	0 - 20	,00	μ\$/cm	
	O2	0 - 20	,00	mg/l O ₂	
	MF	0 - 20	0.00 mg,	/I Cl ₂ , ClO ₂ , O ₃ , H ₂ O ₂ , PES	
			Conne	ction to the electric supply	
		0	230 VA	.C, +/-10%, 50/60 Hz	
	1			C, +/-10%, 60 Hz	
		2	12 VDC, +/-10%		
		3 24 VDC, +/-10%		C, +/-10%	
				Option	
			0	none	
			С	DCW 110 COM	
			D	DCW 110 LIP-D	
			1U	DCW 110 COMM1U	
			5	DCW 110 COMM5	
			6	DCW 110 COMM6	
			7	DCW 110 COMM7	
			8	DCW 110 COMM8	

DCW 110	PH 0	0	(example order)	
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DCW III			



DOSAControl DCW 120 MF, Measurement- and Control Instrument

1-channel-controller, free programmable for the following parameters: pH, Redox (ORP), conductivity, temperature, turbidity, dissolved oxygen, nitrate and amperometric sensors for Cl₂, ClO₂, O₃, H₂O₂, PAA, Br (mA- and mV-signal).



General features:

- Microprocessor controller with large LC-Display, background lightened
- All measurement values and operating conditions completely displayed
- Complete visualization of controller informations
- Settings via keypad
- Residual data storage in case of power failure
- Signal input for amperometric sensors:
 4-20 mA@12/24V isolated
- Signal input for amperometric sensors:
 ± 0 2000 mV
- Adjustable polarisation time
- Direct calibration access
- 2 Analogue outputs 0/4-20 mA (measurement signal and regulation)
- Control input NO/NC with adjustable delay
- 1 Relay output for dosing pump (230 VAC) (impulse or cycle)
- 1 Relay output (control: P, PI, PID)
- 1 Alarm-Relay output
- Alarm display: Sensor not connected
- Alarm display: Sensor failure
- Alarm display: Water lack
- Test functions
- 1 input for flow control (proximity switch, PNP)
- Hold- and Auto-function
- Power connection: 90-240 VAC, ±10%, 50/60 Hz
- Enclosure in ABS, protection IP 65
- Dimensions (w x h x d): 229 x 204 x 116 mm

Option:

RS 485, serial interface (Modbus-protocoll)

Language:

• 6 languages (English, German, French, Italian, Portuguese, Spanish



Technical data:

DOSAControl DCW 120		PH	RH	CD	CL ₂
Measuring- and con- trol range	pH mV mS/cm	014,00	0 ± 1000	>00,05/2.000	>0 0 F / 200
Resolution	mg/l Cl₂	0,01	1	0,01 0,1 1 / 10	>0 0,5 / 200 0,001 0,01 0,1
Suitable Measuring cells/ Sensors		pH-Electrodes	Redox/ORP- Electrodes	div. types	DOSASens

DOSAControl DCW 120		CLO ₂	CLT	O ₃	H ₂ O ₂
Measuring- and con- trol range	mg/I CIO ₂ mg/I CIO ₂ - mg/I O ₃ mg/I H ₂ O ₂	>0 0,5 / 200	>0 2,0	>0 0,2 / 10,0	0 200 / 200.000
Resolution		0,001 0,01 0,1	0,01	0,001 0,01	0,1 1 10 / 100
Suitable Measuring cells/ Sensors		DOSASens	DOSASens	DOSASens	DOSASens
DOSAControl DCW 120		PAA	BR	TEMP	Turbidity
Measuring- and con- trol range	mg/I PAA mg/I Br °C FTU NTU	0200 / 20.000	02,0 / 10,0	0 +100	0 100 / 10.000 0 4 / 40 / 400
Resolution		0,1 1 / 10		0,1	
Suitable Measuring cells/ Sensors		DOSASens	DOSASens	DO\$ATemp	DOSATurb
DOSAControl DCW 120		O ₂	ISE	NO ₃	
Measuring- and con- trol range	mg/l O₂ mg/l mg/l NO⁻₃	0 20	on request	0 20 / 50	
Resolution		0,1sat.		0,1	
Suitable Measuring cells/ Sensors		DOSALum	DOSAISE	UV-sensor	

You will find the measuring cells, sensors and flow cells in chapter sensors

Order code

DOSAControl DCW 120							
		Serial Interface					
	0	without					
	1	RS 485					

DCW 120 0 (Order example)	
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DC11 120	DCW 120				
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DOSAControl DCW 250

2-channel measurement and control device for pH/Redox (ORP), pH/Free Chlorine or Total Chlorine, pH/Hydrogen Peroxide; pH/Conductivity (inductive), pH/conductivity (conductive)



Product Description:

- Microprocessor unit with large LCD display with backlit
- All measuring and operating values are displayed simultaneously.
- Operation with an encoder
- Temperature input:
 - Pt100 temperature sensor (0 ... 100 ° C) with display (depending on model see also technical data)
- 2 set point outputs, 230 VAC (ON / OFF, PWM or PFM)
- 1 230 VAC-Alarm-Output
- 2 pulse outputs for pH dosing
- 1 pulse output for dosing pump "Chlorine"
- 2 current outputs 0/4 -20mA for measured values (Set as a recorder output or analog output)
- 1 current output 0/4 -20mA for temperature (Recorder output)
- 2 sensor inputs see technical data
- 2 digital inputs for pH level measurement
- 1 digital input for level measurement of Chlorine
- 1 digital input for Stand-by
- 1 digital input for flow control (proximity switches)
- Interface RS 485 for connecting a modem or of the optional data acquisition.
- ABS plastic housing, IP 65
- Dimensions: 229 x 204 x 116 mm (WxHxD)

Technical data:

DOSA Control DCW 250		PH/RH	PH/Cl ₂	PH/CD Cond.	PH/CD Induc.	PH/H ₂ O ₂ .
Measurement	pH mV	0 14,00 0 +999	0 14,00	0 14,00	0 14,00	0 14,00
and Control range	mS/cm mg/l Cl ₂		0 200,0	0 30,00	0 1000	
range	mg/I H ₂ O ₂					0 200,0
Resolution		0,01 pH - 1 mV	0,01 pH - 0,001 mg 0,01 mg 0,1 mg 1 mg	0,01 pH - 0,01 µS 0,1 µS 1 µS 0,01 mS 0,1 mS	0,01 pH - 0,001 ms 0,01 mS 0,1 mS	0,01 pH - 1 mg
Cells Sensors		pH-Electrode - Redox Electrode	pH-Electrode - DOSA <i>Sens</i>	pH-Electrode - div. typen	pH-Electrode - DOSA <i>Sens</i>	pH-Electrode - DOSA <i>Sens</i>

Sensor types ETEP and ETE are suitable to compensate temperature.



Option

DCW 250 COM

Central unit for data collection from a network involved in "DCW 250" - controls. The DCW 250 COM allows the PC software "Master Comm" remote control (remote control) of up to 32 devices - locally via RS232 or remotely via PSTN or GSM modem. It is possible to capture real-time operating status of each controller to program it to display all the events that occurred / alarms and print the activity of all connected devices, or to create appropriate graphs and data charts. It is also possible to spend on the GMS modem an "SMS" message to one or more numbers entered. Wall-mounted housing in IP 65 The PC software "Master Comm" is included.

DCW 250 LIP-D

Combines all controllers that are equipped with a serial interface RS232/422/485, with an Ethernet Network with 10 Base-T speeds. Wall-mounted housing in IP 65

DCW 250 COMM1U

GSM modem (mobile phone) for PC with USB port. Incl. Cable and power supply.

DCW 250 COMM2

Modem for all controllers with serial interface. Works with PSTN protocol. Wall-mounted housing in IP 65.

DCW 250 COMM5

External modem for DCW 250, installed in a wall-mounted housing, protection class IP 65 Works with GSM protocol (mobile phone), Inclusive cables and power supply.

DCW 250 COMM6

GSM modem (mobile phone) with 2 additional digital inputs. Upon actuation of an input (NO), the modem sends an appropriate message. Wall-mounted housing in IP 65.

DCW 250 COMM7

GSM modem (mobile phone) with 4 additional digital inputs. Upon actuation of an input (NO), the modem sends an appropriate message. Wall-mounted housing in IP 65.

DCW 250 COMM8

GSM modem (mobile phone) with 4 additional digital inputs.
Upon actuation of an input (NO), the modem sends a corresponding SMS, 4 relay outputs (85 - 264 VAC-50/60 Hz.) Programmable by SMS, connecting four outputs for dosing off leadership "IS and MF" programmable via SMS.
Wall-mounted housing in IP 65.



Α Order Code: **DOSA**Control DCW 250 € Measurement and control parameters PH/RH 0 ... 14,00 pH -1000 ... +1000 mV 0 ... 14,00 pH 0 ... 2,000 mg/l Cl2 PH/Cl2 / 2 PH/Cl2 / 5 0 ... 14,00 pH 0 ... 5,000 mg/l Cl2 PH/Cl2 / 10 0 ... 14,00 pH 0 ... 10,00 mg/l Cl2 0 ... 14,00 pH PH/Cl2 / 20 0 ... 20,00 mg/l Cl2 PH/Cl2 / 200 0 ... 14,00 pH 0 ... 200,00 mg/l Cl2 PH/H2O2 0 ... 14,00 pH 0 ... 200,00 mg/I H2O2 0 ... 14,00 pH 0 ... 30 mS PH/CD Cond. PH/CD Induc. 0 ... 14,00 pH 0 ... 999, 9 mS **Electrical Connection** 0 230VAC, +/-10%, 50/60 Hz 1 100 VAC, +/-10%, 60 Hz 2 12 VDC, +/-10% 3 24 VDC, +/-10% **Data transmission** 0 none 1 USB-Port (download on a USB stick) Remote control via Ethernet (USB Comm Service (direct PC connection for remote control), E-mail Alert Service, HTTP remote service). Remote control by GSM / GPRS internal modem (USB Comm Service (direct PC connection for remote control) and SMS alert service, e-mail alert service, HTTP re-mote service). Option Ω none С DCW 250 COM D DCW 250 LIP-D 1U DCW 250 COMM1U 5 DCW 250 COMM5 6 DCW 250 COMM6 7 DCW 250 COMM7 8 DCW 250 COMM8 **DCW 250** PH/H 0 0 0 € (example order) Your selection:

DCW 250



DOSAControl DCW 300 Series

2-channel controller for pH/free chlorine - pH/chlorine dioxide - pH/ozone; Redox (ORP) and temperature display



General information

- Microprocessor unit with LCD, 128 x 64 backlit
- Residual data storage on power failure
- Programmable switch-on delay
- 2 switch points with adjustable direction of action
- Choice of control modes:
 - ON/OFF controller, option with hysteresis
 - Proportional controller (P)
 - Proportional integral controller (PI)
 - Proportional integral differential controller (PID) as pulse-interval, pulse frequency or continuous controller
 - Hysteresis freely adjustable over full range
 - P-range Xp freely adjustable over full range
- 3 relay outputs as floating-potential contacts, max.
 Contact loading 250V/6A, max. 550 VA, of which:
 - 2 x control contacts
 - 1 x alarm contact with adjustable time delay
- 3 analogue outputs 0/4 20 mA, as measurement value or continuous controller output
- Temperature input for Pt 100 and automatic temperature compensation
- RS 485 interface (optional), various interface protocols, e.g. ProfiBUS DP
- Enclosure in plastic, degree of protection IP 65
- Dimensions (Height X Width X Depth):
 160 x 165 x 85 mm

Special feature

In conjunction with KCL sensors for free chlorine, KCLD for chlorine dioxide and KCOZ for ozone, the controller is fitted with a fully automatic, electrochemical operating sensor cleaning system (ASC)!

Technical specifications

DOSAControl DCW 300		PH	RH	CL	CLD	О3
Measurement and control range	pH mV mg/I Cl ₂ mg/I ClO ₂ mg/I O ₃	0.00 14.00	-1500 1500	0 4.00	0 4.00	0 4.00
Resolution		0.01	1	0.01	0.01	0.01
Suitable electrodes and sensors		pH electrodes	Redox electrodes	KCL	KCLD	KCOZ



DOSAControl DC	W 300							
		Me	Measurement and control				ol parameters Suitable sensors	
	PH	Rai	nge:	pH 0-	14.00)	pH electrodes	
	RH	Rai	inge: -1500 to +1500 mV				V Redox electrodes	
	CL	0 -	· 4.00 mg/l Cl ₂				KCL	
	CLD	0 -	4.00 mg/l ClO ₂				KCLD	
	О3	0 -	- 4.00 mg/l O ₃				KCOZ	
			Cor	nectio	n to t	he ele	ectric supply	
		0	230	VAC,	+6%/-	10%, 4	40/60 Hz	
		1	110	VAC,	+6%/-	40/60 Hz		
		2	24 \	/AC, +				
				Front	pane			
			D	DOSA	Cont			
			Χ	Custo	mer-s	specifi	ic	
				ASC			matic sensor cleaning system	
				7.00			types KCL and KCLD	<u> </u>
					RS PB		I interface RS 485 ous DP	
						AK	Standard lead, 5 m	
DCW 300	CL	0	D	-	-	AK	(example order)	
Your selection	1	1			I	l	T	
DCW 300								



DOSAControl 500

5-channel controller for the following parameters:

pH, redox (ORP), conductivity, chlorine (free chlorine, total chlorine, bound chlorine), chlorine dioxide, ozone, hydrogen peroxide, peracetic acid, turbidity, oxygen and temperature



General information

- Microprocessor unit with large, backlit LCD
- All measurement and operating values are displayed simultaneously on one display
- Controlled via a rotary encoder
- 6 setpoint relay outputs (ON/OFF, PID or PVM)
- 6 proportional outputs for dosing pumps
- 1 relay output for automatic sensor cleaning
- 5 inputs for level measurement
- 5 time clocks for dosing the flocculants or algicide
- Contact water meter input for topping up with fresh water
- Alarm relay output
- Logbook (event data memory)
- RS 485
- Housing made of ABS plastic, degree of protection IP 65
- Dimensions (Width X Height X Depth): 325 x 235 x 125 mm

Options

- 6 analogue outputs 0/4 20 mA
- Ethernet Web Server Ethernet + RS485 + USB
- GSM/GPRS + RS485 + USB



Technical specifications

Series DOSAControl DCV	V 500	PH	RH	CD	CL
Measurement and control range	pH mV mS/cm mg/I Cl ₂	0 14.00	0 +1000	0 300,0	0 200,0
Resolution		0.01	1	0.01 0.1 1	0.001 0.01 0.1
Suitable measurement cells/sensors		pH electrodes	Redox electrodes	div. Types	DOSASens

Series DOSAControl DCV	W 500	CLO2	O3	H2O2	PES
Measurement and control range	mg/I CIO ₂ mg/I O ₃ mg/I H ₂ O ₂ PES	0 20.00	0 10.00	0 2000	0 2000
Resolution		0.001 0.01	0.001 0.01	0.1	0.1
Suitable measurement cells/sensors		DOSASens	DOSASens	DOSASens	DOSASens
Series DOSAControl DCV	N 500	O2	NTU	TEMP	
Measurement and control range	mg/l O₂ NTU °C	0 - 20.00	0 – 30.0	0 - 100.0	
Resolution		0.01	0.1	0.1	
Suitable measurement cells/sensors		DOSASens	on request	DOSATemp	

See under heading Sensors for measurement cells, sensors and fittings

Order code

	order code								
Series DOSA	Series DOSAControl DCW 500								
		Option	outputs						
	0	-							
	1	6 analo	ogue outputs 0/4 - 20 mA						
			Data transfer						
		0	-						
		1	Data transfer and remote control via Ethernet + network DOSAControl DCW 500 internal Ethernet web server Ethernet + 485 + USB						
		2	Data transfer and remote control via internal GSM/GPRS modem DOSAControl DCW 500 GSM/GPRS + RS485 +						
			Connection to the electric supply						
			0 230 VAC, +/-10%, 50/60 Hz						
			1 110 VAC, +/-10%, 50/60 Hz						

	DCW 500	1	2	0	(example order)		l
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DCW 500			



DOSAControl DC 96 Series

1-channel controller for free chlorine, chlorine dioxide or ozone and temperature



General information

- Microprocessor unit with 2-line LCD, backlit
- Residual data storage on power failure
- Programmable switch-on delay
- 2 switch points with adjustable direction of action
- Choice of control modes:
 - ON/OFF controller, option with hysteresis
 - Proportional, proportional-integral controller (P-, PI-controller) as pulse-interval, pulse frequency (PFM) or continuous controller
 - Hysteresis freely adjustable over full range
 - P-range Xp freely adjustable over full range
- 3 relay outputs as floating contacts, max.
 Contact loading 250V/6A, max. 550 VA, of which:
 - 2 x control contacts
 - 1 x alarm contact with adjustable time delay
- 1 analogue output 0/4 20 mA, as measurement or continuous controller output
- Temperature input for Pt 100 and automatic temperature compensation
- RS 485 interface (optional), choice of various interface protocols, e.g. ProfiBUS DP
- Enclosure in plastic, protection class IP 65
- Dimensions (Width X Height X Depth):
 96 x 96 x 135 mm

Special feature

In conjunction with KCL sensors for free chlorine, KCLD for chlorine dioxide and KCOZ for ozone, the controller is fitted with a fully automatic, electro-chemical operating sensor cleaning system (ASC)!

DOSAControl DC 96		CL	CLD	О3
Measurement and control range	mg/I Cl ₂ mg/I ClO ₂ mg/I O ₃	0 - 4,00	0 - 4,00	0 - 4,00
Resolution		0.01	0.01	0.01
Suitable sensors		KCL	KCLD	KCOZ



DOSAControl DC	96									
		Ме	asur							
	CL	0 -	4.00							
	CLD	0 -	4.00	mg/l C						
	О3	0 -	4.00	.00 mg/I O ₃ KCOZ						
	Connection to the electric supply									
	0 230 VAC, +6/-10%, 40/60 Hz						/60 Hz			
	1					7 VAC, +6/-10%, 40/60 Hz				
	2 24 VAC, +6/-10%, 40/60 Hz						60 Hz			
				Front	pane	l				
			D	DOSA	Cont	rol				
			Χ	custo	mer-s	pecifi	С			
				ASC			nated sensor cleaning system types KCL and KCLD			
					RS PB	Seria	l interface RS 485, ous DP			
					טו	AK	Standard lead, 5 m			
DC 96	CL	0	D	-	-	AK	(example order)			
Your selection										
DC 96										



DOSAControl JC digital Series

1 channel controller for pH, redox (ORP), conductivity, free chlorine, total chlorine, chlorine dioxide, ozone, dissolved oxygen and temperature



General information

- Microprocessor unit with LCD backlit
 - Residual data storage on power failure
- Programmable switch...on delay
- ON/OFF control mode with two limits and adjustable control hysteresis
- Digital outputs as floating potential relay, max. contact load 230V/5A
 - 2 x limit switch contacts
- Analog outputs:
 - $1 \times 0/4 20$ mA, programmable
- Digital inputs for flow monitor
- Temperature input for NTC 10 $k\Omega$ and automatic temperature compensation,
- Enclosure ABS plastic, protection IP 40
 Dimensions (Width X Height X Depth): 96 x 96 x 85 mm

Technical specifications

Series JC digital		PH	RH	CD	CL
Measurement and control range	pH mV µS/cm mS/cm mg/I Cl ₂	0 14.00	0 +1000	0 2000.0 0 200.0	0 200.0
Resolution		0.01	1	0.01 0.1 1	0.001 0.01 0.1
Suitable probes/sensors		pH electrodes	Redox electrodes	div. types	DOSASens

Series JC digital		CLO2	O2	O3	TEMP
Measurement and control range	mg/I CIO ₂ mg/I O ₂ mg/I O ₃ °C	0 200.0	0 20.00	0 20.00	0 100.0
Resolution	0.01	0.001 0.01 0.1	0.01	0.01	0.1
Suitable probes/sensors		DOSASens	MFOX 39 MFOX 41	DOSASens	ETEHLP

Sensor type ETEP (NTC) is suitable for temperature compensation. For probes, sensors and fittings, see under heading sensors



Measure	ment and contro	l parameters Suitable sensors			
0 14.00	0	pH electrodes			
0 +100	00 mV	Redox electrodes			
0 2,000) μS/cm	DOSACon series C			
0 20.00) μS/cm	DOSACon series C			
0 200.0) μS/cm	DOSACon series C			
0 2000	μ\$/cm	DOSACon series C			
0 20.00) mS/cm	DOSACon series C			
0 200.0) mS/cm	DOSACon series C			
0 2,000) mg/l Cl ₂	DOSASens			
0 5.00	mg/l Cl ₂	DOSASens			
0 10.00) mg/l Cl ₂	DOSASens			
0 20.00) mg/l Cl ₂	DOSASens			
0 200.0) mg/l Cl ₂	DOSASens			
0 2,000) mg/l ClO ₂	DOSASens			
0 20.00) mg/l ClO ₂	DOSASens			
0 200.0) mg/l ClO ₂	DOSASens			
0 20.00) mg/l O ₂	DOSASens			
0 2,000) mg/l O₃	DOSASens			
0 10.00) mg/l O₃	DOSASens			
0 100.0	0°C	DOSATemp ETEHLP			
	Connection to t	he electric supply			
0	230 VAC, +/-109	%, 50/60 Hz			
1	110 VAC, +/-10%	%, 50/60 Hz			
2	24 VAC, +/-10%				
	•				
0	(example order)			
	0 14.00 0 +100 0 2,000 0 20.00 0 2000 0 2000 0 2,000 0 2,000 0 2,000 0 20.00 0 20.00 0 20.00 0 20.00 0 20.00 0 20.00 0 20.00 0 20.00 0 20.00 0 20.00 0 20.00 0 20.00 0 20.00 0 20.00 0 20.00	0 14.00 0 +1000 mV 0 2,000 μS/cm 0 20.00 μS/cm 0 200.0 μS/cm 0 200.0 μS/cm 0 200.0 mS/cm 0 20.00 mS/cm 0 20.00 mS/cm 0 2,000 mg/l Cl ₂ 0 5.00 mg/l Cl ₂ 0 20.00 mg/l Cl ₂ 0 20.00 mg/l Cl ₂ 0 20.00 mg/l Cl ₂ 0 200.0 mg/l Cl ₂ 0 200.0 mg/l Cl ₂ 0 200.0 mg/l ClO ₂ 0 20.00 mg/l ClO ₂ 0 20.00 mg/l ClO ₂ 0 20.00 mg/l O ₃ 0 10.00 mg/l O ₃ 0 100.0°C Connection to t 0 230 VAC, +/-10% 1 110 VAC, +/-10%	0 14.00 pH electrodes 0 +1000 mV Redox electrodes 0 2,000 μS/cm DOSACon series C 0 20.00 μS/cm DOSACon series C 0 200.0 μS/cm DOSACon series C 0 2000 μS/cm DOSACon series C 0 2000 μS/cm DOSACon series C 0 2000 mS/cm DOSACon series C 0 200.0 mS/cm DOSACon series C 0 200.0 mS/cm DOSACon series C 0 200.0 mg/l Cl2 DOSASens 0 5.00 mg/l Cl2 DOSASens 0 20.00 mg/l Cl2 DOSASens 0 20.00 mg/l Cl2 DOSASens 0 200.0 mg/l Cl2 DOSASens 0 200.0 mg/l Cl2 DOSASens 0 200.0 mg/l ClO2 DOSASens 0 200.0 mg/l O3 DOSASens 0 200.0 mg/l O3 DOSASens 0 200.0 mg/l O3 DOSASens 0 10.00 mg/l O3 DOSASens 0 10.00 mg/l O3 DOSASens 0 100.0°C DOSATemp ETEHLP		

Your sele	ction		
JC D			



DOSAControl JDigital Series

1 channel controller for pH, redox (ORP), conductivity, free chlorine, total chlorine, chlorine dioxide, ozone, dissolved oxygen and temperature



Product description

- Mikroprocessor unit with LCD,backlit
- Residual data storage on power failure
- Programmable switch-on delay
- ON/OFF control mode with two limits and adjustable control

hysteresis

- Digital outputs as floating potential relay, max. contact load 230V/5A:
 - 2 x limit switch contact
- Analogue outputs:
 - 1 x 0/4 20 mA, programmable
- Digital inputs for flow monitor
- Temperature input for NTC 10 $k\Omega$ and automatic temperature compensation,
- Housing made of ABS plastic, protection class IP 40 Dimensions (Width X Height X Depth): 96 x 48 x 140 mm

Technical specifications

Series JDigital	_	PH	RH	CD	CL
Measurement and control range	pH mV µS/cm mS/cm mg/l Cl₂	0 14,00	0 +1000	0 2000,0 0 200,0	0 200,0
Resolution		0,01	1	0,01 0,1 1	0,001 0,01 0,1
Suitable measurement cells/sensors		pH electrodes	Redox electrodes	div. Types	DOSASens

Series JDigital		CLO2	O2	O3	TEMP
Measurement and control range	mg/I CIO ₂ mg/I O ₂ mg/I O ₃ °C	0 200,0	0 20,00	0 20,00	0 100,0
Resolution	0,01	0,001 0,01 0,1	0,01	0,01	0,1
Suitable measurement cells/sensors		DOSASens	MFOX 39 MFOX 41	DOSASens	ETEHLP

Sensor type ETEP (NTC) is suitable for temperature compensation. See under heading Sensors for measurement cells, sensors and fittings



igital 	Measurement and con	trol parameters Suitable sensors
PH	0 14,00	pH electrodes
RH	0 +1000 mV	Redox electrodes
CD 2	0 2,000 μS/cm	DOSACon Series C
CD 20	0 20.00 μS/cm	DOSACon Series C
CD 200	0 200.0 μS/cm	DOSACon Series C
CD 2000	0 2000 μS/cm	DOSACon Series C
CD 20.0	0 20.00 mS/cm	DOSACon Series C
CD 200.0	0 200.0 mS/cm	DOSACon Series C
CL 2	0 2,000 mg/l Cl ₂	DOSASens
CL 5	0 5.00 mg/l Cl ₂	DOSASens
CL 10	0 10.00 mg/l Cl ₂	DOSASens
CL 20	0 20.00 mg/l Cl ₂	DOSASens
CL 200	0 200.0 mg/l Cl ₂	DOSASens
CLO2 2	0 2,000 mg/l ClO ₂	DOSASens
CLO2 20	0 20.00 mg/l ClO ₂	DOSASens
CLO2 200	0 200.0 mg/l ClO ₂	DOSASens
O2	0 20.00 mg/I O ₂	DOSASens
O3 2	0 2,000 mg/l O ₃	DOSASens
O3 10	0 10.00 mg/I O ₃	DOSASens
TEMP	0 100.0°C	DOSATemp ETEHLP
	Connection t	o the electric supply
	0 230 VAC, +/	10%, 50/60 Hz
	1 110 VAC, +/	10%, 50/60 Hz
	2 24 VAC, +/	10%

JD	PH	0	(example order)	
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	_		
10			
1 11)			
1 10			



DOSAControl TU 7685 Turbidity meter

1-channel controller for turbidity





General information

- Microprocessor unit with LCD, backlit
- Residual data storage on power failure
- Programmable switch-on delay
- Choice of turbidity measurement range
 0 4 NTU, 0 40 NTU, 0 400 NTU, 0 4000 NTU
- Choice of control modes:
 - Proportional mode with pulse frequency (PFM) or Pulse width (PWM) and adjustable control hysteresis
 - ON/OFF mode with two limits and adjustable control hysteresis
- Digital outputs as floating potential relay, max. contact load 230V/5A:
 - 2 x limit switch contacts
 - 1 x alarm contact
- Analogue outputs:
 - 1 x 0/4 20 mA, programmable
- Temperature input for Pt 100 and automatic temperature compensation
- Panel mount aluminum housing, protection IP 40
 Dimensions (Length X Height X Depth): 96 x 96 x 155 mm

Turbidity cells

- Nephelometric measurement principle with infrared light in the range 890 nm, 90° scattered light method in accordance with ISO 7027 (EN 27027). The measurement of infrared light guarantees a long service life for the cell and long periods of operation between calibrations.
- Factory calibrated and ready to use!
- Fast response time of 10 seconds
- Lead lengths up to 100 m possible due to integrated preamplifier
- Measurement range: 0 4.000 NTU 0 10 g/l
- Max. operating pressure: 6.0 bar at 25°C
- Operating temperature 0 50° C
- Lead connector with IP 65 protection

Flow measurement cell TU 810 TU 910 + flow cell TU 910

The turbidity cell TU 810 can be mounted in a flow cell for integration into a flow system. The flow cell is fitted with a flow-rate adjustment valve for precise adjustment of the flow rate, and hose connectors (6/8 mm) for a quick and easy installation in the bypass.



Turbidity m	eter	TU 7	685										
		Vers	sion										
	Р	Cor	ntrol par	ol panel mounting									
	W	Wal	l mounti	nounting housing									
			Electric	Electrical connection:									
		0	230 VA	.C, +/-10%	5, 50 H	Ηz							
		1		.C, +/-10%									
		2		C, +/- 10%									
				Measure			ge Resolut	ion					
			4	0 - 4,000			0.001						
			40	0 - 40.00	NTU		0.,01						
			400	0 - 400.0	UTN C		0.1						
			4000	0 - 4000	NTU		1.0						
					Turb	idity	measurement o	cell					
				TU 810	Flow	/-rate	e measurement	cell					
						Mat	terial:						
					0	PVC							
					5	PVD	OF (Types TU 810	and TU 910 only)					
							Connection le	ad					
						10	10 m lead with	7-pin plug					
						XX							
							-	without					
							TU 910PVC	Flow cell with installation adapter and O-ring (NBR)					
								aaapter ana O-ring (NBR)					

TU 7685	P	0	40	TU 810	0	10	TU 910PVC	(example order)	
V I	L								
Your selec	tion								,
TU 7685									



DOSAControl DINDigital Series

1 channel controller for pH, redox (ORP), conductivity, free chlorine, total chlorine, chlorine dioxide, ozone, dissolved oxygen and temperature;



General information

- Microprocessor unit with LCD,backlit
- Residual data storage on power failure
- Programmable switch-on delay
- ON/OFF control mode with two limits and adjustable control hysteresis
- Digital outputs as floating potential relay, max. contact load 230V/5A:
 - 2 x limit switch contact
- Analogue outputs:
 - 1 x 0/4 20 mA, programmable
- Digital inputs for flow monitor
- Temperature input for NTC 10 $k\Omega$ and automatic temperature compensation,
- Enclosure in ABS plastic, degree of protection IP 40 Dimensions (Width X Height X Depth): 107 x 90 x 58 mm

Technical specifications

Series DIN DIGITAL		PH	Redox	CD	CI
Measurement and control range	pH mV µS/cm mS/cm mg/l Cl ₂	0 - 14.00	0 to +1000	0 - 2000.0 0 - 200.0	0 - 200.0
Resolution		0.01	1	0.01 0.1 1	0.001 0.01 0.1
Suitable measurement cells/sensors		pH electrodes	ORP electrodes	div. Types	DOSASens

Series DIN DIGITAL		CIO2	O2	O3	TEMP
Measurement and control range	mg/I CIO ₂ mg/I O ₂ mg/I O ₃ °C	0 - 200.00	0 - 20.00	0 - 10.00	0 - 100.0
Resolution		0.001 0.01 0.1	0.01	0.01 0.1	0.1
Suitable measurement cells/sensors		DOSASens	MFOX 39 MFOX 41	DOSASens	ETEHLP

Sensor type ETEP (NTC) is suitable for temperature compensation. See under heading Sensors for measurement cells, sensors and fittings



	Measurement and control parameters	Suitable sensors
PH	0 - 14,00	pH electrodes
RH	0 - +1000 mV	Redox electrodes
CD 2	0 - 2,000 µS/cm	DOSACon Series C
CD 20	0 - 20.00 μS/cm	DOSACon Series C
CD 200	0 - 200.0 μS/cm	DOSACon Series C
CD 2000	0 - 2000 μS/cm	DOSACon Series C
CD 20.0	0 - 20.00 mS/cm	DOSACon Series C
CD 200.0	0 - 200.0 mS/cm	DOSACon Series C
CL 2	0 - 2,000 mg/l Cl ₂	DOSASens
CL 5	0 - 5.00 mg/l Cl ₂	DOSASens
CL 10	0 - 10.00 mg/l Cl ₂	DOSASens
CL 20	0 - 20.00 mg/l Cl ₂	DOSASens
CL 200	0 - 20,000 mg/l Cl ₂	DOSASens
CLO2 2	0 - 2,000 mg/l ClO ₂	DOSASens
CLO2 20	0 - 20.00 mg/l ClO ₂	DOSASens
CLO2 200	0 - 200.0 mg/l ClO ₂	DOSASens
O2	0 - 20.00 mg/l O ₂	DOSASens
O3 2	0 - 2,000 mg/l O ₃	DOSASens
O3 10	0 - 10.00 mg/l O ₃	DOSASens
TEMP	0 - 100.0°C	DOSATemp ETEHLP
	Connection to the electric sup	pply
	0 230 VAC, +/-10%, 50/60 Hz	
	1 110 VAC, +/-10%, 50/60 Hz	
	2 24 VAC, +/-10%	

DIN	PH	0	(example order)	
		_	(example exact)	

DIN	
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Simulator for pH and redox (ORP)



General information

The pH or mV simulator is an easy-to-use, accurate test unit for servicing work. You can use it to check the operation of the measurement and control unit and the electrodes.

The tester is protected by a rubber housing for field use

- Pushbuttons for pH / mV-range
- pH accuracy \pm 0.05; mV range \pm 2
- USA/NIST pH buffer standard simulation
- 16 different control points
- 1 GΩ input resistance
- Large, bright LED display
- Splash-proof keypad
- Rubber cover and stand
- Energy-saving device operates with 4 x 1.5V AAA batteries
- Measurement output: BNC plug
- pH values: 1.00; 1.68; 4.01; 6.86; 7.00; 9.18; 10.01; 12.45
- mV values: 1800; 900; 390; -390; -900; -1800
- Dimensions (Width X Length X Height): 75 x 155 x 50 mm
- Weight: 200 g (with packaging)

Order code

DOSASim simulator for pH and redox (ORP)



Photometer for free chlorine, total chlorine or chlorine dioxide according to DPD



General information

The new microprocessor-based, portable, waterproof colorimeters measure chlorine (free and total), pH and chlorine dioxide to give fast, accurate, reproducible results.

The versatile, carefully designed user interface of the photometers make them easy to use. Information and self-diagnostics are displayed on a large LCD. Each photometer is supplied with reagents and cells in a rugged carrying case for rapid testing in the Field

- Measurement method: photometric
- Light source: light emitting diode at 525 nm; Detector: Silicon photodiode
- Autoranging
- Cells: borosilicate glass with screw caps, fill line, height x diameter: 51 x 25 mm, volume: 10 ml
- Energy-saving unit works with
 4 x 1.5V AAA batteries
 Splash-proof keypad
- Dimensions (Width X Length X Height):
 68 x 155 x 46 mm
- Weight: 200 g; with carrying case: 1.25 K

Photometer C 103		Measurement range 1	Measurement range 2	
Measurement ranges mg/I ClO ₂		0 – 3.79	3.8 – 11.4	
Resolution	mg/I CIO ₂	0.01	0.1	
Accuracy	mg/I CIO ₂	0.02	0.2	

Photometer C 301		Measurement range 1	Measurement range 2	рН		
Measurement ranges	mg/I Cl ₂ mg/I Cl ₂ pH	0 - 1.99	2.0 - 6.0	5,9 – 8,2		
Resolution	mg/I Cl ₂	0.01	0.1	0.1 pH		
Accuracy	mg/I Cl ₂	0.02	0.2	±0.01 pH		

Order code

DOSAControl photometer C 103	
DOSAControl photometer C 301	

Order code

Accessories	
Reagents: 1 kit (100 tests) free chlorine	
Reagents: 1 kit (500 tests) free chlorine	
Reagents: 1 kit (100 tests) total chlorine	
Reagents: 1 kit (500 tests) total chlorine	
Reagents: 1 kit (100 tests) glycine	



Sensors



2. Sensors - DOSASens

2.1.	Electrodes
2.1.1	pH-electrodes Type PH2
2.1.1	pH-electrodes Type HG
2.1.1	pH-electrodes Type PHRT-2
2.1.1	pH-electrodes Type HPGT-2
2.1.2	ORP-electrodes Type PFGR
2.1.2	ORP-electrodes Type PFGK
2.1.2	ORP-electrodes Type MVRTHT-2
2.1.2	ORP-electrodes Type PRGT-2
2.1.2	ORP-electrodes Type MV-2
2.1.3	Electrode cable
2.1.3	Buffer Solutions
2.2.	Conductivity / Temperature
2.2.1	DOSACon C-E conductivity probes Series ECDC
2.2.1	DOSACon C-E conductivity probes Series ECDI
2.2.1	DOSACon C-E conductivity probes Series EICD
2.2.1	DOSACon C-E conductivity probes Series ECDHPT
2.2.1	DOSACon I ECDIND PT conductivity probes
2.2.1	DOSACon I-mA conductivity probes
2.2.2	DOSATemp temperature probes ETE
2.2.2	DOSATemp temperature probes CG21
2.3	Amperometric Sensors
2.3.1	DOSASens chlorine sensor CL2.1
2.3.1	DOSASens chlorine sensor CL4.1
2.3.1	DOSASens chlorine sensor CS2.3 and CS3
2.3.1	DOSASens chlorine sensor CP2.1 and CP3
2.3.1	DOSASens chlorine sensor CC1
2.3.1	DOSASens chlorine sensor CN1
2.3.2	DOSASens bromine sensor BR1
2.3.3	DOSASens Chlorite sensor MST1
2.3.4	DOSASens chlorine dioxide sensor CD4
2.3.4	DOSASens chlorine dioxide Sensor CD7
2.3.5	DOSASens ozone sensor OZ1
2.3.5	DOSASens ozone sensor OZ7
2.3.6	DOSASens hydrogen peroxide sensor WP7
2.3.6	DOSASens hydrogen peroxide sensor WP10

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2.3.7 2.3.7 2.3.7	DOSASens peracetic acid sensor PES7 DOSASens peracetic acid sensor P9 DOSASens peracetic acid sensor P10
2.3.8	DOSASens oxygen sensor MFOX
2.3.9 2.3.9 2.3.9 2.3.9 2.3.10	DOSASens open chlorine probe AS DOSASens open chlorine dioxide probe AS DOSASens open probe KC DOSASens open probe DFDS Accessories DOSASens, Sensor cable
2.3.11 2.3.11	Spare parts amperometric sensors, membrane caps Spare parts amperometric sensors, electrolyte
2.4	Probe holder
2.4.1 2.4.1 2.4.1 2.4.1	Probe holder DOSAFlow flow cell Type DF 01 LC DOSAFlow flow cell Type DF DOSAFlow cell Type NPED DOSAFlow cell Type DAS1 + DAS1-KC
2.4.1 2.4.1 2.4.1	DOSAFlow flow cell Type DF 01 LC DOSAFlow flow cell Type DF DOSAFlow cell Type NPED
2.4.1 2.4.1 2.4.1 2.4.1	DOSAFlow flow cell Type DF 01 LC DOSAFlow flow cell Type DF DOSAFlow cell Type NPED DOSAFlow cell Type DAS1 + DAS1-KC
2.4.1 2.4.1 2.4.1 2.4.1 2.4.2	DOSAFlow flow cell Type DF 01 LC DOSAFlow flow cell Type DF DOSAFlow cell Type NPED DOSAFlow cell Type DAS1 + DAS1-KC Immersion Housings ETA + Accessories for Immersion Housings ETA



pH electrodes Type PH ... 2 .. Standard electrodes



PHGK-2 PHPK-2

General information

Standard electrode with ceramic diaphragm. Small contact surface means no ion loss from the electrolyte. Long-term stability reference system with gel electrolyte and additional KCl reservoir.

- Version with glass barrel for use in process water, wastewater technology and water treatment
- Version with polysulfone barrel; particularly suitable for swimming pools, with relatively long service life.

pH range: pH 0 - 14
 Pressure range: 0 - 6.0 bar
 Temperature range: -5 to + 80°C
 Barrel length 120 mm, barrel diameter 12 mm

 PG 13.5 thread for process connection with SN 6 plug-in screw head

Order code

pH electr	pH electrode Type PH 2					
	Version					
	GK	Glass	Glass electrode			
	PK	Electr	Electrode with polysulfone barrel			
	2 PG 13.5 – process connection					

PH	GK	-2-	(example order)		l
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PH	-2-		



pH electrodes Type HG ... Combination glass electrodes



General information

Combination glass electrodes are pH electrodes with an integrated reference system. The gel filler enables the electrodes to be use at pressures up to 6.0 bar. The electrode barrel is sealed. It is therefore not necessary to top up the KCl electrolyte. The conductor system of the integrated reference electrode is protected by a long diffusion path of approx. 180 mm, which significantly increases the service life.

pH ranges:
 pH 0 - 12 and pH 0 - 14

Pressure range: 0 - 6.0 bar
Temperature range: -15 to + 80°C

- Reference system with long diffusion path. This produces low drift and results in long service lives and long calibration intervals
- Rapid response even when temperatures fluctuate continuously
- The measurements are highly reproducible
- Different barrel lengths available. Barrel diameter 12 mm
- Different standard installation versions available:
 - PG 13.5 for Industrial fittings
 - NSA plug-in head for laboratory applications
- Cable connection SN 6 screwed plug-in head

Technical specifications

HGR (open ring junction)	HGK (Ceramic diaphragm)		
Open ring junction instead of a diaphragm. Prevents blocking; therefore reliable measurements	Ceramic diaphragm. Small contact surface means no ion loss from the electrolyte. Therefore, very long service life		
Suitable for pH range 0 - 12	Suitable for pH range 0 - 14		
Pressure range: 0 - 6.0 bar	Pressure range: 0 - 0.6 bar		
Temperature range: - 15 to + 60°C	Temperature range: - 15 to + 80°C		
Suitable for conductivities > 500 µS/cm	Suitable for conductivities > 100 µS/cm With integrated salt storage available on enquiry. There- fore suitable for measurement in desalinated water with very low conductivities.		
Areas of application	Areas of application:		
Media containing solids in municipal and industrial wastewater and process technology	Solid-free media in water treatment, swimming-pool technology and process technology		



pH combination electrodes Type HG							
		Diaph	Diaphragm				
	R	pH rar Tempe	Open ring junction for municipal and industrial wastewater OH range: 0 - 12 emperature range: -15 to +60°C				
	K	Ceramic for drinking water, swimming pool and laboratory pH range: 0 - 14 Temperature range: - 15 to + 80°C					
Connection head				tion head			
		1 NSA plug-in head					
		2	2 PG 13.5 – thread				
Electrode length			Electrode length				
			120	120 mm			
			150	150 mm			
			225	225 mm			
			XXX	Customer-specific special lengths			
ПС	D	2	120	(avample order)			

HG	R	2	120	(example order)	
'					

HG					
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pH electrodes Type PHRT 2 with dirt-repellant PTFE diaphragm



General information

Low-maintenance and robust due to large, dirt-repellent, PTFE annular diaphragm. Integrated KCL reservoir allows measurements even at very low conductivities.

- Long-term monitoring or limiting value control of processes under stable process conditions
 - Paper industry
 - Power stations (i. e. flue gas stripping)
 - Refuse incineration plants
- Water treatment
 - Drinking water
 - Boiler feed water
 - Cooling water
 - Fountain water
 - Pure water
- pH range: pH 1-12 and pH 0-14
- Pressure range: 0 6.0 bar
 Temperature range: -15 to + 80°C
- Available in three lengths: 120, 150 and 225 mm. Barrel diameter 12 mm
- PG 13.5 thread for process connection with SN 6 plug-in screw head

Order code

pH electrode Type PH	IRT 2		
	Application:	Water/wastewater	
	pH range:	1 - 12	
	Temperature	e -15 to +80°C	
		Electrode length	
	120	120 mm	
	150	150 mm	
	225	225 mm	

PHRT 2 120 (example order)	
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PHRT-2		



Order code

pH electrode Type PHRTHT 2		
Use Process		
pH range:		
Temperature	e- 10 to + 100°C	
	Electrode length	
120	120 mm	
150	150 mm	
225	225 mm	

PHRTHT-2	120	(example order)	
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PHRTHT-2			
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pH electrodes Type HPGT 2

with dirt-repellant PTFE diaphragm; steam sterilisable



General information

Low-maintenance and robust due to large, dirt-repellent, anti-blocking, PTFE annular diaphragm. Integrated KCL reservoir allows measurements even at very low conductivities.

- Long-term monitoring or limiting value control of processes under stable process conditions
 - Paper industry
 - Power stations (i. e. flue gas stripping)
 - Refuse incineration plants
 - Food industry (e.g. fermenters)
 - Breweries
- Water treatment
 - Drinking water
 - Boiler feed water
 - Cooling water
 - Fountain water
 - Pure water

pH range: pH 0 - 14
 Pressure range: 0 - 6.0 bar

- Temperature range: -15 to + 130°C, **steam-sterilisable**
- Available in two lengths: 120 and 225 mm. Barrel diameter 12 mm
- PG 13.5 thread for process connection with SN 6 plug-in screw head

Order code

pH electrodes Type	HPGT 2		
		Electrode length	
	120	120 mm	
	225	225 mm	

HPGT-2	120	(example order)

HPGT-2		



Redox electrodes Type PFGR

Glass electrodes with open-ring junction



General information

The gel-filled redox electrode is mainly used for municipal and industrial wastewater treatment. It is also excellent for use in electroplating technology. The gel filler enables the electrodes to be use at pressures up to 6 bar. The electrode barrel is sealed. It is therefore not necessary to top up the KCl electrolyte. The conductor system of the integrated reference electrode is protected by a long diffusion path of up to

180 mm, which gives the electrode a significantly improved service life.

Measurement element: Platinum Conductor system: Ag/AgCl
 Pressure range: 0 - 6.0 bar
 Temperature range: -5 to +60°C

- Minimum conductivity of medium: > 500 μS/cm
 Reference system with long diffusion path. Electrode
- drift is therefore only slight and the service life is long.

 The reproducibility of the measurements is exceptionally
- Ine reproducibility of the measurements is exceptionally high
- Different standard installation versions available:
 - PG 13.5 for Industrial fittings
 - NSA plug-in head for laboratory applications
- Barrel diameter: 12 mm
- Cable connection SN 6 screwed plug-in head

Order code

Redox electrod	les Type P	FGR	
		Connecti	on head
	1	NSA plug	-in head
	2	PG 13.5 -	thread
			Electrode length
		120	120 mm
		150	150 mm
		225	225 mm (with PG 13.5 connection head only)

PFGR 2 120 (example order)

PFGR



Redox electrodes Type PFGK

Glass electrodes with ceramic diaphragm



General information

The gel-filled redox electrode is mainly used for water treatment and swimming pools. The gel filling enables the electrodes to be used at pressures of up to 0.6 bar. The conductor system of the integrated reference electrode is protected by a long diffusion path of approx. 180 mm, which significantly increases the service life.

- Measurement element options:
 - Platinum pin
 - Platinum surface
 - Gold pin

Conductor system: Ag/AgCl

- Pressure range: 0 0.6 bar
 Temperature range: 0 to +80°C
- Minimum conductivity of medium > 100 μS/cm
- Reference system with long diffusion path. Electrode drift is therefore only slight and the service life is long.
- The reproducibility of the measurements is exceptionally high
- Different standard installation versions available:
 - PG 13.5 for Industrial fittings
 - NSA plug-in head for laboratory applications
- Barrel diameter: 12 mm
- Cable connection SN 6 screwed plug-in head

The choice of a suitable redox electrode mainly depends on the type of measurement medium. The following basic rules might be helpful:

- Gold electrode for oxidizing media, i. e. cyanide, or nitrite oxidation, ozone, or hydrogen peroxide measurement.
- Platinum electrode for reducing media, i. e. chrome reduction and chlorine dosage in swimming pools.

Order code

Redox electrode Type PFGK									
		Connecti	Connection head						
	1	NSA plug	NSA plug-in head						
	2	PG 13.5 -	G 13.5 – thread						
	Electrode length								
		120	120 mm						
		150	150 mm						
		225	225 mm (with PG 13.5 connection head only)					
				Measurement element					
			FBO	Platinum surface, 1 diaphragm					
			NBO	Gold pin, 1 diaphragm					
	Platinum pin, 1 diaphragm								
			SBO						

PFGK	2	120	FBO	(example order)	
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PFGK					
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Redox electrode Type MVRTHT 2

with dirt-repellant PTFE diaphragm



General information

Low-maintenance and robust due to large, dirt-repellent, PTFE annular diaphragm. Integrated KCL reservoir allows measurements even at very low conductivities.

- Long-term monitoring or limiting value control of processes under stable process conditions
 - Paper industry
 - Power stations (i. e. flue gas stripping)
 - Refuse incineration plants
 - Food industry (e.g. fermenters)
 - Breweries
- Water treatment
 - Drinking water
 - Boiler feed water
 - Cooling water
 - Fountain water
 - Pure water
- Measurement element options:
 - Platinum ring
 - Gold pin
- Measurement range: -1500 to + 1500 mV
- Pressure range: 0 6.0 bar
 Temperature range: -15 to + 110°C
- Barrel length 120, 150 or 225 mm, barrel diameter 12 mm
- PG 13.5 thread for process connection with SN 6 plug-in screw head

Order code

Redox electrode Type MVRTHT 2								
		Electrode le	ngth					
	120	120 mm						
	150	150 mm						
	225	225 mm						
			Measurement element					
		FAO	Platinum ring					
		NAO	Gold pin					

MVRTHT-2	120	FAO	(example order)	
—			(externible exercit	

MVRTHT-2		
/V\ V \\ - Z		



Redox electrode Type PRGT 2

with dirt-repellant PTFE diaphragm; steam sterilisable



General information

Low-maintenance and robust due to large, dirt-repellent, anti-blocking, PTFE annular diaphragm. Integrated KCL reservoir allows measurements even at very low conductivities.

- Long-term monitoring or limiting value control of processes under stable process conditions
 - Paper industry
 - Power stations (i.e. flue gas stripping)
 - Refuse incineration plants
 - Food industry (e.g. fermenters)
 - Breweries
- Water treatment
 - Drinking water
 - Boiler feed water
 - Cooling water
 - Fountain water
 - Pure water
- Measurement range: -1500 to + 1500 mV
- Pressure range: 0 6.0 bar
- Temperature range: -15 to + 130°C, steam-sterilisable
- Minimum conductivity of medium: > 50 μS/cm
- Barrel length 120 mm or 225 mm, barrel diameter 12 mm
- PG 13.5 thread as process connection with SN6 plug-in screw head

Order code

Redox electrode Type PRGT 2						
		Electrode length				
	120	120 mm				
	225	225 mm				

PRGT-2 120 (example order)	
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PRGT-2			
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Redox electrodes Type MV .. 2 Standard electrodes



General information

Standard electrode with ceramic diaphragm. Small contact surface means no ion loss from the electrolyte. With long-term stability reference system with gel electrolyte and additional KCI reservoir.

- Version with glass barrel for use in process water, wastewater technology and water treatment
- Version with polysulfone barrel; particularly suitable for swimming pools, with relatively long service life.
- Pressure range:

0 - 6.0 bar

• Temperature range:

-5 to + 80°C

- Barrel length 120 mm, barrel diameter 12 mm
- PG 13.5 thread as process connection with SN 6 screwed plug-in head

Order code

Redox electrode Type MV2								
	Version							
	GK Glass electrode							
	Use Water treatment, wastewater, process water, swimming pool							
	PK	Electrode with polysulfone barrel						
		Use Swimming pools						

MV	GK	(example order)	
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MV		
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Electrode leads



SN 6/SN 6 SN 6/BNC SN 6/open

General information

Coax lead for pH and redox electrodes are available in four different lengths from 0.5 m to 20 m, with 5 mm lead diameter

Customised lengths are available on request.

One end of the lead is fitted with an SN6 screwed plug to connect to a measurement electrode. To ease installation, the other end of the cable is either pre-assembled with an SN 6 plug or a BNC plug or is left without a connector. Advantages

- Preassembled coax leads ease installation
- Tested by manufacturer, to guarantee reliable operation
- Protection class: IP 65

General assembly instructions:

- In order to minimise electric interference, use as short electrode lead as possible.
- Make sure that the coax lead is not laid parallel to the power supply cables.
- Use pre-assembled coax leads whenever possible.

Order code

Electrode lead	Electrode leads Type AK						
		Length:					
	0.5 1 2 3 5	m m m m m					
	15 20	m m		-			
			Plug combinations				
		SN 6/SN 6	2 x SN 6 plug				
		SN 6/BNC	SN 6 plug / BNC plug				
		SN 6/open	SN 6 plug / lead end open				
AK	2	SN 6/SN 6	(example order)				
Your selection		,					
AK							



Buffer solutions



General information

pH buffer solutions

- Buffer solutions from pH 4.0 to pH 10.0 for calibrating pH electrodes are available in different quantities.
- The precision of these buffer solutions is ± 0.02 pH. The shelf life depends on how frequently they are used and how much chemical reagent is carried over.
- Alkaline buffer solutions absorb CO₂ on contact with air so change their value. The bottles should therefore be closed immediately after use.

Redox buffer solutions

- Buffer solutions for calibrating redox-electrodes from 220 mV to 468 mV are available in different quantities.
- The precision of these buffer solutions is ± 5 mV.

Order code

pH buffer	solution	
рН		
pH 4		
pH 7		
pH 9		
pH 10		
	Bottle size	
	50 ml	
	250 ml	
	1.00 ml	

pH 4-	50	(example order)	
Your selection	1		
рН			



Order code

Redox buffe	r solution		
	Redox value		
220 mV			
468 mV			
	Bottle size		
	50 ml		
	250 ml		
	1000 ml		
220 mV	250	(example order)	
Your selection	<u> </u>		
mV			

Order code

Conductivit	y buffer solution	
	Conductivity value	
84 µS		
1,413 µS		
12,880 µS		
	Bottle size	
	50 ml	

220 mV	250	(example order)					
Your selection	Your selection						
μS							

Once opened, buffer solutions should be renewed after approx. 3 months.



DOSACon C-E conductivity cells Series ECDC

2 electrode-systems, conductive



General information

2-electrode systems with integrated temperature probe for automatic temperature compensation

• Measurement range: >0 mS/cm - 200 mS/cm

Pressure range: 0 - 7 bar
 Temperature range: 0 - 100° C
 Barrel material: PVDF
 Electrode: Graphite

• ¾" – screw thread,

 $\frac{1}{2}$ " – screw-in thread available on request

 Cable connection with standard electrical equipment plug including 4.0m lead (other lengths available on request)

Order code

Conducti	vity cells	Series E	CDC				
	Barrel r	material	Electrode	max. o	perating pressure/max. operating temperature	•	
ECDC	PVDF		Graphite	7	7,0 bar/60° C//2 bar/100°C		
		Integra	ted temperature	probe			
	0	withou	t				
	С	with NT	C 10 k				
	CPT	with Pt	100				
			Measurement r	ange	Cell constant K		
		/1	max. 20 mS	S/cm	1.0		
		/10	max. 200 mS	S/cm	10.0		

ECDC-	С	/1	(example order)
Your select	tion		



DOSACon C E conductivity cells Series ECDI

2 electrode-systems, conductive



Product description

2-electrode systems with integrated temperature probe for automatic temperature compensation

• Measurement range: $>0 \mu S/cm - 5,000 mS/cm$

Pressure range: 0 - 7 bar
 Temperature range: 0 - 100° C
 Barrel material: PVDF

• Electrode: Stainless steel AISI 316

• ¾" – screw thread,

 $\frac{1}{2}$ " – screw-in thread available on request

 Cable connection with standard electrical equipment plug including 4.0 m lead (other lengths available on request)

Order code

Conducti	Conductivity cells Series ECDI						
	Barrel material: Electrode: max. o			perating pressure/max. operating temperature:			
ECDI	PVDF		Stainless steel AISI 316	7,0 bar/60° C//2 bar/ 100°C			
		Integrated temperature probe:					
	0	without					
	С	with NTC 10 k					
	CPT	with Pt	100				
			Measurement range:	Cell constant K:			
		/01	max. 200 μS/cm	0,1			
		/02	max. 500 μS/cm	0,2			
		/1	max. 5.000 μS/cm	1,0			

ECDI	С	/1	(example order)	
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ECDI		



DOSACon C conductivity cells Series EICD

2 electrode-systems, conductive



General information

2-electrode systems with integrated temperature probe for automatic temperature compensation

• Measurement range: >0 µS/cm - 20,000 mS/cm

Pressure range: 0 - 15 bar
Temperature range: 0 - 130° C

Barrel material: Stainless steel AISI 316
Electrode: Stainless steel AISI 316

• ¾" – screw-in thread,

 Cable connection with standard electrical equipment plug including 4.0 m lead (other lengths available on request)

Order code

Conduct	ivity cell	s Series E	ICD			
	Barrel ture	material	Ele	ectrode	max. operating pressure/max. operating tempera-	
EICD	Stainless steel AISI 316			Stainless steel AISI 316 15.0 bar/130°C		
		Integra	ited tem	perature probe		
	С	with NI	C 10 k			
	CPT	with Pt	100			
			Measu	rement range	Cell constant K	
		/001	max.	20 μS/cm	0.01	
		/01	max.	200µ\$/cm	0.1	
		/1	max.	20,000	μS/cm 1.0	

			·	
EICD	С	/1	(example order)	

|--|



DOSACon C conductivity cells Series EICDHPT

2 electrode-systems, conductive



General information

2-electrode systems with integrated temperature probe for automatic temperature compensation Pt 100

• Measurement range: $>0 \mu S/cm - 20,000 mS/cm$

Pressure range: 0 - 15 bar
 Temperature range: 0 - 200° C

Barrel material: Stainless steel AISI 316
 Electrode: Stainless steel AISI 316

• ¾" – screw-in thread,

 Cable connection with standard electrical equipment plug including 4.0 m lead (other lengths available on request)

Order code

Conductivit	y cells Series Ele	CDHPT		
	Barrel materia	ıl Electrode	max. operating pressure/max. operating temper-	
EICDHPT	Stainless steel	AISI 316 Stainless steel	AISI 316 15.0 bar/130°C	
		Measurement range	Cell constant K	
	/001	max. 20 µS/cm	0.01	
	/01	max. 200 μS/cm	0.1	
	/1	max. 20,000 µ\$/cm	1.0	

EICDHPT	/1	(example order)	

FICDHPT		
LICDIII		



DOSACon ECDIND PT conductivity probe inductive



General information

Conductivity probe with intregrated temperature probe Pt100 for automatic temperature compensation

• Measurement range: >0 mS/cm to 300 mS/cm

pressure range: 0 ... 8 bar
temperature range: 0 ... 85° C
Shaft material: PEEK

• G 1 and NPT 3/4"

• 4.0 m connection cable (other lengths on request)

An inductive conductivity probe consists of two coils: A transmitter coil and a receiver coil. Both are integrated in a finger-shaped housing. A bore is guided through the finger and the integrated coils. The liquid closes around the finger. A sinusoidal alternating voltage is applied to the transmitter coil. Therewith, a current arises in the liquid, proportional to conductivity. In turn, this current generates a voltage in the receiver coil. By measurement of this voltage and the knowledge of the cell constant, conductivity is detected. For conductivity compensation, a temperature probe is integrated.

Order Code

Conductivity probe Series ECDC							
	Schaftmate	erial	max. Betriebsdruck/max. Betriebstemperatur:				
ECDIND	PEEK		8,0 bar/85° C				
		Durchflussarmatur					
	PEL-IND	PVC	7,0 bar/40° C				

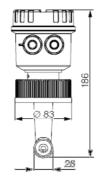
ECDIND PEL-IND		(example order)	

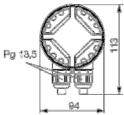
ECDIND-		1
ECDIND-		1
		1



DOSACon I-mA conductivity probes DOSACon Inductive







General information

This compact measurement transducer is designed for inductive conductivity measurement in liquids with medium to high conductivities. It is recommended for use in media where heavy precipitation is expected from pollutants, oil, fat or coagulates of gypsum and lime. The integrated Pt 100 temperature probe for automatic temperature compensation guarantees accurate measurement even with strongly fluctuating temperatures. The measurement transducer can be used for temperature ranges up to 70°C and it is resistant to polarisation.

• Measurement range: 0,2 - 1.000 mS/cm

• Pressure range: 0 - 8 bar/40°C, 1 bar/70°C

• Temperature range: 0 - 70° C

• With or without display according to choice

4 - 20 mA output for conductivity
 4 - 20 mA output for temperature

• Power supply:

- 24 VDC (terminals on unit)

- 230 VDC with mains power supply and 1.5 m lead

• Process connection: Sleeve nut in PP, 2 1/4", ND 40

Housing: PBT (polybutylene therephtalate)
 Barrel material: PP (polypropylene)

• Protection class: IP 65

Areas of application

- Water treatment:
 - Desalination control in cooling tower plants
 - Monitoring ion exchange systems
 - Monitoring fountain solutions and separating agents
- Washing processes
 - Car-wash plants
 - Laundries
 - Mordant treatment

Order code

Conductivity probe Type DOSACon /-mA							
		Display					
	1	with					
	0	Without					
			Power supply:				
		24	24 VDC				
		230	230 VAC, with mains power supply				

DOSACon I-mA 1 24 (example order)	
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DOSACon I-mA		
200710011111111111111111111111111111111		



DOSATemp temperature probe Series ETE



General information

ETE series temperature probes are specially designed for connection to devices from our series of units in order to provide automatic temperature compensation for the measured values.

• Measurement system options: NTC, Pt 100 or mV/°C

Temperature range: 0 to + 100°C
 Pressure range: 0 - 10.0 bar

- Rapid response even when temperatures fluctuate continuously
- 1/2" standard connection thread and 4 m fixed lead
- Probe body: PVDF

Order code

Temperature probe Series ETE								
		Temperat	emperature probe					
	HLP	HLP 1 mV = 0.1°C						
	P	with NTC 10 KOhm with Pt 100						
	PT							

ETE	PT	(example order)	

CTC		
l CIC		



DOSATemp temperatur probe CG 21 Pt 100

Built-in version with connection thread



General information

The standard electrode temperature probe complements the electrochemical measurement methods with automatic temperature compensation of the measured values. This particularly applies to applications involving temperatures up to 100°C and strongly fluctuating temperatures. The probe body is made of glass, so it can be used for steam sterilisable applications such as food, beverages and pharmaceutics.

• Measurement system Pt 100

• Temperature range: -10 to +100°C

• Pressure range: 0 - 6.0 bar (at 80°C)

- Rapid response even when temperatures fluctuate continuously
- Built-in versions with PG 13.5 connection thread for industrial fittings
- SN 6 screwed plug-in head
- Thread length 120 mm, diameter 12 mm

Order code

Temperature probe Type CG 21



DOSASens chlorine sensor CL 2.1 ...

for the measurement of free, inorganic chlorine at constant pH

Technical specifications:



CL 2.1							
	Salt water with up						
Area of use		contain surfactants.					
	The pH must be co						
		NaOCI (= sodium hypochlorite), Ca(OCI)2, chlorine gas, electrolytically generated chlorine by					
Suitable chlorinating agents	membrane electro						
		abrane-less chlorine electrolysis)					
		ed, amperometric 2-electrode system with					
Measuring system	integrated electro						
Electronic	Analog version: mA-version:	voltage output; not galvanically isolated Electronics; analog internal data Processing; current output; analog, not galvanically isolated electronics with poti for (restricted) adjustment of measuring range;					
Indicator	free chlorine	-					
Operating temperature	>5 - <45 °C						
Temperature compensation	automatically, by	an integrated temperature sensor					
max. allowed operating pressure	1.0 bar, no pressure	e impulses and/or vibrations					
Flow rate	approx. 30 l/h,						
pH-range	pH 6 – pH 8, take ir	nto account the dissociation curve of HOCI					
Run-in time	First start-up appro	x. 1 h					
Response time	T90: approx. 30 sec	<u> </u>					
Zero point adjustment	not necessary						
Slope calibration	concentration (DP						
Interferences	O3: is also med						
Connection	analog:	4-pol. plug adapter					
	mA:	2-pol plug-on flange (2 x 1 mm²)					
Material	semipermeable me						
Dimensions	diameter: length:	approx. 25 mm approx. 175 mm (4-pole screw connector) approx. 220 mm (4-20 mA, 2-pol. terminal)					
Storage	Probe:	Can be stored frost-free, dry and without electrolyte for an unlimited time at >5->40°C					
	Membrane cap : Electrolyte:	Used membrane caps cannot be stored! in original bottle and protected from sun light at least 1 year at >5 - <25 °C					
Maintenance	Replacement of the on the water quali	of the measuring signal: at least once a week the membrane cap: once a year (depending ty) lectrolyte: every 3 - 6 months					
Spare parts	Membrane cap: Electrolyte:	M20 ECL2.1					



Technical Data:

CL2.1 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
CL2.1N	0.05 – 20.00	0.01	02000 mV 1 k'Ω	-100 mV/ppm	±5 - ±15 VDC 10 mA	4-pol. plug

CL2.1 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€			EMV-Testing D RoHS co			
CL2.1MA2	0.01 – 2,00	0.01	420 mA uncalibrated	8.0 mA/ppm	12 – 30 VDC R _L 50Ω…R _L 900Ω	2-pol. terminal

Order Code

Chlorine se	nsor CL 2.1						
		Measurin	g rang	ge in ppm	Resolution in ppm	Nominal slope	
	N	0.05	-	20.00	0.01	-100 mV/ppm	
	MA 2	0.01	-	2.00	0.01	8.0 mA/ppm	

CL 2.1 -	MA 2	(example order)			
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OI 0 1		
1(1)1-		
OL 2		



DOSASens chlorine sensor CL 4.1 ...

for the measurement of free, inorganic chlorine at constant pH



Technical specifications:

Technical specifications:					
CL 4.1					
Area of use	The water must <u>not</u> The pH must be cor				
Suitable chlorinating agents	NaOCI (= sodium hypochlorite), Ca(OCI)2, chlorine gas, electrolytically generated chlorine by membrane electrolysis (not suitable: membrane-less chlorine electrolysis)				
Measuring system	Membrane-covered, amperometric 2-electrode system with integrated electronic				
Electronic	Analog version: mA version:	voltage output; not galvanically isolated Electronics; analog internal data processing current output; analog, not galvanically isolated electronics with poti for (restricted) adjustment of measuring range;			
Indicator	free chlorine				
Operating temperature	>5 - <45 °C				
Temperature compensation	automatically, by a	an integrated temperature sensor			
max. allowed operating pressure		impulses and/or vibrations			
Flow rate	approx. 30 l/h,				
pH-range	pH 6 – pH 8; take in	to account the dissociation curve of HOCI!			
Run-in time	First start-up approx	c. 1 h			
Response time	T90: approx. 30 sec				
Zero point adjustment	not necessary				
Slope calibration	concentration (DPE				
Interferences	O3: is also med				
Connection	analog: mA:	4-pole screw connector 2-pol. terminal (2 x 1 mm²)			
Material	semipermeable me				
Dimensions	diameter : length :	approx. 25 mm approx. 175 mm (4-pole screw connector) approx. 220 mm (4-20 mA; 2-pol. terminal)			
Storage	Probe: Membrane cap: Electrolyte:	Can be stored frost-free, dry and without electrolyte for an unlimited time at >5->40°C Used membrane caps cannot be stored! in original bottle and protected from sun light at least 1 year at >5 - <25°C			
Maintenance	Replacement of the on the water qualit	f the measuring signal: at least once a week e membrane cap: once a year (depending			
Spare parts	Membrane cap : Electrolyte :	M20 ECL1			



Technical Data:

CL4.1 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
CL4.1H	0.005 – 2.000	0.001	0 0000 1/	-1000 mV/ppm		4-pol.
CL4.1N	0.05 – 20.00	0.01	02000 mV 1 kΩ	-100 mV/ppm	±5 - ±15 VDC 10 mA	plug
CL4.1L	0.5 – 200.0	0.1	1 1/22	-10 mV/ppm	101117	

CL4.1 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
			_	OIN EN 61326-1		
			RoHS co	pmpliant		
CL4.1MA0,5	0.01 – 0.50	0.01		32.0 mA/ppm		
CL4.1MA2	0.01 – 2.00	0.01		8.0 mA/ppm		
CL4.1MA5	0.01 – 5.00	0.01	4 00 4	3.20 mA/ppm	10 00 \ (10 0	
CL4.1MA10	0.01 – 10.00	0.01	420 mA uncalibrated	1.6 mA/ppm	1230 VDC R ₁ 50ΩR ₁ 900Ω	2-pol. terminal
CL4.1MA20	0.01 – 20.00	0.01	oricalibratea	0.8 mA/ppm	NE 0032NE 70032	TOTTILITAL
CL4.1MA-100	0 – 100	0.1		0.16 mA/ppm		
CL4.1MA-200	0 - 200	0.1		0.08 mA/ppm		

Order Code

ne sensor CL 4.	1				
	Measuring range in ppm		_	nge Resolution in ppm	Nominal slope
Н	0.005	-	2.000	0.001	-1000 mV/ppm
N	0.05	-	20.00	0.01	-100 mV/ppm
L	0.5	-	200.0	0.1	-10 mV/ppm
MA0.5	0.01	-	0.50	0.01	32.0 mA/ppm
MA2	0.01	-	2.00	0.01	8.0 mA/ppm
MA5	0.01	-	5.00	0.01	3.20 mA/ppm
MA10	0.01	-	10.00	0.01	1.6 mA/ppm
MA20	0.01	-	20.00	0.01	0.8 mA/ppm
MA100	0	-	100	0.1	0.16 mA/ppm
MA200	0	-	200	0.1	0.08 mA/ppm

CL 4.1 -	MA 2	(example order)			
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CI 4.1 -		
U =		



DOSASens chlorine sensor CS 2.3... and CS3...

for the measurement of free, inorganic chlorine; reduced pH dependence



Technical specifications

Cs 2.2 and Cs2							
CS 2.3 and CS3	Swimming-pool water, drinking water and sea water						
Area of use	Tensides are partly to	•	ruiel				
Cuitable oblevia estina e esperato	NaOCI (= sodium hy						
Suitable chlorinating agents	Ca(OCI)2, chlorine g	a(OCI)2, chlorine gas, electrolytically generated chlorine					
Measuring system		l, amperometric 3-electroc	le system with				
	integrated electronicanalog version :	voltage output; not galvelectronics; analog inter					
Electronic	digital version :	processing; signal output: analog (analog-out/analog) electronic is completely gisolated; digital internal disignal output: optional analog (analog-out/digitor	galvanically lata processing;				
	mA version :	digital (digital-out/digital) current output; not galvanically isolated elec for (restricted) adjustment range; signal output: analog (analog-out/anal	tronics with poti t of measuring				
Indicator	Free chlorine	0,	O,				
Operating temperature	>5 - <45 °C						
Temperature compensation		n integrated temperature se	ensor				
max. allowed operating pressure		impulses and/or vibrations					
Flow rate	Approx. 30 l/h						
pH-range	pH 4 - pH 9, reduce	d pH dependence					
Run-in time	First start-up approx.	2 h					
Response time	T90: approx. 2 min.						
Zero point adjustment	not necessary						
Slope adjustment	At the device, by centration, DPD-1-m	analytical determination of ethod	the chlorine con-				
Interferences	O3: Slope -80 m Combined chlorine	nV/ppm, d. s. 75 % of the Clo nV/ppm, d. s. 80 % of the O3 may increase the measuren	concentration				
Connection	analog-out/analog: analog-out/digital: digital-out/digital: 4-20 mA:	4-pol. Screw plug 4-pol. Screw plug 5-pol. M12, flange plug 2-pol terminal (2 x 1 mm²	·)				
Material	Microporous hydrop	hilic membrane , PVC-U, sta	inless steel 1.4571				
Dimensions	Diameter: Length:	approx. 25 mm analog-out/analog analog-out/digital digital-out/digital 4-20 mA	approx. 175 mm approx. 195 mm approx. 205 mm approx. 220 mm				
Storage	Probe: Membrane cap: Electrolyte:	Can be stored frost-free, di electrolyte for an unlimited >5->40°C Used membrane caps can in the original bottle and p light storable at least 1 year	ry and without I time at not be stored! rotected from sun				



Maintenance	Regular control of the measuring signal: at least once a Replacement of membrane cap: once a year (dependent quality) Replacement of electrolyte: every 3 - 6 months	
Spare parts	Membrane cap: M48.1G Electrolyte: EC\$2.1/GEL	

Technical Data:

CS2.3 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C\$2.3HUn	0.005 - 2,000	0.001	02000 mV 1 kΩ	-300 mV/ppm	±5 - ±12,5 VDC 10 - 25 VDC 25 mA	4-pol.
C\$2.3N	0.05 – 20,00	0.01	02000 mV 1 kΩ	-100 mV/ppm	±5 - ±15 VDC 10 mA	plug

CS2.3 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection	
C€	EMV-Testing DIN EN 61326-1 RoHS compliant						
CS2.3MA2	0.01 – 2.00	0.01		8.0 mA/ppm			
CS2.3MA5	0.01 – 5.00	0.01	4 20 mA	3.2 mA/ppm	12 – 30 VDC	2-pol.	
C\$2.3MA10	0.01 – 10.00	0.01	uncalibrated	1.6 mA/ppm	R _L 50Ω…R _L 900Ω	terminal	
C\$2.3MA20	0.01 – 20.00	0.01		0.8 mA/ppm			



CS3 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
СЅЗН	0.005 – 2.000	0.001	02000 mV 1 kΩ	-300 mV/ppm	±5 - ±12,5 VDC 10 - 25 VDC 25 mA	4-pol.
CS3N	0.05 – 20.00	0.01	02000 mV 1 kΩ	-100 mV/ppm	±5 - ±15 VDC 10 mA	plug
CS3L	0.5 – 200.0	0.1	02000 mV 1 kΏ	-10 mV/ppm	±5 - ±15 VDC 10 mA	

CS3 (analog output, analog internal signal processing)

analog-out / digital

- The power supply is galvanically isolated inside the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection	
C€	EMV-Testing DIN EN 61326-1 RoHS compliant						
CS3H-A12n	0.005 - ca. 2.000	0.001	(max2500mv) -100 mv/ppm	12 VDC			
CS3N-A12n	0.05 - ca. 20.00	0.01		- 25UUMVI I - IUU MV/DDM I '	(11,5 – 13 VDC ±6 VDC	4-pol. plug	
CS3L-A12n	0.5 – ca. 200.0	0.1		-10 mv/ppm	approx. 40 mA	piog	
CS3H-A24n	0.005 - ca. 2.000	0.001	02000 mV	-300 mV/ppm	24 VDC		
CS3N-A24n	0.05 - ca. 20.00	0.01	(max2500mV)	(max2500mV) -100 mv/ppm		(22.5 – 26 VDC ±12 VDC	4-pol. plug
CS3L-A24n	0.5 – ca. 200.0	0.1	1 ΚΏ	-10 mv/ppm	approx. 20 mA	p.09	



CS3 (digital output, digital internal signal processing)

digital-out / digital

- The power supply is galvanically isolated inside the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection			
C€		EMV-Testing DIN EN 61326-1 RoHS compliant							
C\$3H-M1-12	0.005 - ca. 2.000	0.001		300 mV/ppm	12 VDC (+11.5 – +13 VDC +6 VDC	5-pol.			
C\$3N-M1-12	0.05 - ca. 20.00	0.01	Modbus RTU	100 mV/ppm		M12			
C\$3L-M1-12	0.5 – ca. 200.0	0.1		10 mV/ppm	approx. 40 mA	flange plug			
CS3H-M1-24	0.005 - ca. 2.000	0.001		300 mV/ppm	24 VDC	5-pol.			
CS3N-M1-24	0.05 – ca. 20.00	0.01	Modbus RTU	100 mV/ppm	(+22.5 – +26 VDC ±6 VDC	M12			
CS3L-M1-24	0.5 – ca. 200.0	0.1		10 mV/ppm	approx. 40 mA	flange plug			

CS3 4-20 mA (Analogausgang, analoge interne Signalverarbeitung)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection		
C€	EMV-Testing DIN EN 61326-1 RoHS konform							
CS3MA-2	0.01 – 2.00	0.01		8.0 mA/ppm				
CS3MA-5	0.01 – 5.00	0.01		3.2 mA/ppm	12 – 30 VDC			
C\$3MA-10	0.01 – 10.00	0.01	4 20 mA uncalibrated	1.6 mA/ppm	R _L 50ΩR _L	2-pol. terminal		
C\$3MA-20	0.01 – 20.00	0.01	oricalibratea	0.8 mA/ppm	900Ω	TCTTIITIGI		
C\$3MA-200	0.5 – 200.0	0.1		0.08 mA/ppm				



Order Code

Chlorine se	Chlorine sensor CS2.3												
		Measuring range in ppm		Measuring range in ppm Resolution in ppm		Nominal slope							
	HUn	0.005	-	2.000	0.001	-300 mV/ppm							
	Ν	0.05	-	20.00	0.01	-100 mV/ppm							
	MA2	0.01	-	2.00	0.01	8.0 mA/ppm							
	MA5	0.01	-	5.00	0.01	3.2 mA/ppm							
	MA10	0.01	-	10.00	0.01	1.6 mA/ppm							
	MA20	0.01	-	20.00	0.01	0.8 mA/ppm							

CS 2.3 -	MA 2	(Example order)			l
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Your selection:

Order Code

Chlorine se	Chlorine sensor CS3								
		Meausrir	ng rang	e in ppm	Resolution in ppm	Nominal slope			
	Н	0.005	-	2.000	0.001	-300 mV/ppm			
	N	0.05	-	20.00	0.01	-100 mV/ppm			
	L	0.5	-	200.0	0.1	-10 mV/ppm			
	H-A12n	0.005	-	2.000	0.001	-300 mV/ppm			
	N-A12n	0.05	-	20.00	0.01	-100 mV/ppm			
	L-A12n	0.5	-	200.0	0.1	-10 mV/ppm			
	H-A24n	0.005	-	2.000	0.001	-300 mV/ppm			
	N-A24n	0.05	-	20.00	0.01	-100 mV/ppm			
	L-A24n	0.5	-	200.0	0.1	-10 mV/ppm			
	H-M1-12	0.005	-	2.000	0.001	300 mV/ppm			
	N-M1-12	0.05	-	20.00	0.01	100 mV/ppm			
	L-M1-12	0.5	-	200.0	0.1	10 mV/ppm			
	H-M1-24	0.005	-	2.000	0.001	300 mV/ppm			
	N-M1-24	0.005	-	20.00	0.01	100 mV/ppm			
	L-M1-24	0.5	-	200.0	0.1	10 mV/ppm			
	MA2	0.01	-	2.00	0.01	8.0 mA/ppm			
	MA5	0.01	-	5.00	0.01	3.20 mA/ppm			
	MA10	0.01	-	10.00	0.01	1.6 mA/ppm			
	MA20	0.01	-	20.00	0.01	0.8 mA/ppm			
	MA200	0	-	200	0.1	0.08 mA/ppm			

CS3 - MA 2 (Example order)

C\$3 -						



DOSASens chlorine sensor CP 2.1... and CP3...

for the measurement of total chlorine (= free and combined chlorine); greatly reduced pH dependence





lechnical specifications:					
CP 2.1 and CP3		21.07051			
	- with electrolyte ECP1.3/GEL: Swimming-pool water/ drinking water				
Area of use	- with electrolyte ECF				
	Tensides are partly to	olerated.			
Suitable chlorinating agents	NaOCI (= sodium hyp				
Condition Idning agons		as, electrolytically generat			
Measuring system	integrated electronic				
Electronic	analog version: digital version: mA version:	voltage output; not galve electronics; analog intern processing; signal output: analog (analog-out/analog lectronic is completely galsolated; digital internal designal output: optional analog (analog-out/digital) or digital (digital-out/digital) current output; not galvanically isolated elector (restricted) adjustment range; signal output:	al data og) alvanically ata processing; al)		
		analog (analog-out/anal			
Indicator	total chlorine (= free	chlorine + combined chlor	ine)		
Operating temperature	>5 – <45 °C				
Temperature compensation	automatically, by an	integrated temperature se	ensor		
max. allowed operating pressure	0.5 bar, no pressure	impulses and/or vibrations			
Flow rate	approx. 30 l/h				
pH-range		reduced pH dependence pprox. 5% per unit increase			
Run-in time	First start-up approx.		• •		
Response time	T90: approx. 2 min.				
Zero point adjustment	not necessary				
Slope adjustment	At the device, by ar	nalytical determination of ethod (DPD-1 + DPD-3)	the chlorine con-		
Interferences	ClO2: measured 10 O3: measured with	0% th a slope of approx. 130% relation to the slope for chl	orine)		
Connection	analog-out/analog: analog-out/digital: digital-out/digital: 4-20 mA:	4-pol. Plug adapter 4-pol. Plug adapter 5-pol. M12, plug-on flan 2-pol terminal (2 x 1 mm			
Material	Microporous hydroph	nilic membrane, PVC-U, sta	inless steel 1.4571		
Dimensions	diameter : length:	ca. 25 mm analog-out/analog analog-out/digital digital-out/digital 4-20 mA	ca. 175 mm ca. 195 mm ca. 205 mm ca. 220 mm		



Ctorage	Probe:	Can be stored frost-free, dry and without electrolyte for an unlimited time at >5->40°C			
Storage	Membrane cap : Electrolyte:	Used membrane caps cannot be stored! in original bottle and protected from sun light at least 1 year at >5 - <25 °C			
	Regularly control of the measuring signal: at least once a week				
Maintenance	Replacement of the membrane cap: once a year (depending				
Mairierarice	on the water quality				
	Replacement of electrolyte: every 3 - 6 months				
	Membrane cap:	M48.1 D only for CP2.1HUn			
Spara parts		M48.1			
Spare parts	Electrolyte:	ECP1.3/GEL			
		ECP2S/Gel for salt water application			

Technical Data:

CP2.1 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
CP2.1Hun	0.005 – 2.000	0.001	02000 mV 1 KΩ	-1000 mV/ppm	±5 - ±12.5 VDC 10 - 25 VDC 25 mA	
CP2.1N	0.05 – 20.00	0.01	02000 mV 1 kΩ	-100 mV/ppm	±5 - ±15 VDC 10 mA	4-pol. plug
CP2.1Up	0.05 – 20.00	0.01	0+2000 mV 1 kΩ	+100 mV/ppm	±5 - ±12.5 VDC 10 - 25 VDC 25 mA	

CP2.1 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connect ion
C€	EMV-testing DIN EN 61326-1 RoHS compliant					
CP2.1MA0,5	0.05 – 0.50	0.01		32.0 mA/ppm		
CP2.1MA2	0.01 – 2.00	0.01		8.0 mA/ppm	12 – 30 VDC Rι 50ΩRι 900Ω	2-pol. terminal
CP2.1MA5	0.01 – 5.00	0.01	4 20 mA uncalibrated	3.2 mA/ppm		
CP2.1MA10	0.01 – 10.00	0.01	oricalibratea	1.6 mA/ppm	NL 3032NL 70032	ICITIIII
CP2.1MA20	0.01 – 20.00	0.01		0.8 mA/ppm		



CP3 (analog output, analog internal signal processing)

analog-out / analog

A galvanical isolation at the measuring / control device is necessary!

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connect ion
СР3Н	0.005 – 2.000	0.001	02000 mV 1 kΩ	-1000 mV/ppm	±5 - ±15 VDC 10 mA	
CP3N	0.05 – 20.00	0.01	02000 mV 1 kΩ	-100 mV/ppm	±5 - ±15 VDC 10 mA	4-pol. screw
CP3Up	0.05 – 20.00	0.01	0+2000 mV 1 k'Ω	+100 mV/ppm	±5 - ±15 VDC 10 mA	

CP3 (analog output, analog internal signal processing)

analog-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connect ion
C€	EMV-Testing DIN EN 61326-1 RoHS compliant					
CP3H-A12n	0.005 - ca. 2.000	0.001	02000 mV	-1000 mV/ppm	12 VDC (11.5 – 13 VDC	4-pol.
CSPN-A12n	0.05 - ca. 20.00	0.01	(max2500mV) 1 kΩ	-100 mv/ppm	±6 VDC approx. 40 mA)	screw
CP3H-A24n	0.005 - ca. 2.000	0.001	02000 mV	-1000 mV/ppm	24 VDC (22.5 – 26 VDC	4-pol.
CP3N-A24n	0.05 - ca. 20.00	0.01	(max2500mV) 1 k'Ω	-100 mv/ppm	±12 VDC approx. 20 mA)	screw



digial-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connect
C€	EMV-Testing DIN EN 61326-1 RoHS compliant					
CP3H-M1-12	0.005 - ca. 2.000	0.001	Madbus PTH	1000 mV/ppm	12 VDC (+11.5 – +13 VDC	5-pol M12
CP3N-M1-12	0.05 - ca. 20.00	0.01	Modbus RTU	100 mV/ppm	±6 VDC Ca. 40 mA	Flange screw
CP3H-M1-24	0.005 - ca. 2.000	0.001	Modbus RTU	1000 mV/ppm	24 VDC (+22.5 – +26 VDC	5-pol M12
CP3N-M1-24	0.05 - ca. 20.00	0.01	MOGDUS KIU	100 mV/ppm	±6 VDC Ca. 40 mA	Flange screw

CP3 4-20mA 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A galvanical isolation at the measuring / control device is necessary!

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connect ion
C€	EMV-Testing DIN EN 61326-1 RoHS compliant					
CP3MA-0,5	0.05 – 0.50	0.01		32.0 mA/ppm		
CP3MA-2	0.01 – 2.00	0.01	, ,,	8.0 mA/ppm	10 00 1/0 0	0 1
CP3MA-5	0.01 – 5.00	0.01	4 20 mA uncalibrated	3.2 mA/ppm	12 – 30 VDC R ₁ 50Ω…R ₁ 900Ω	2-pol. terminal
CP3MA-10	0.01 – 10.00	0.01	or realistated	1.6 mA/ppm	N. 0032N. 70032	10111111101
CP3MA-20	0.01 – 20.00	0.01		0.8 mA/ppm		



Order code

Chlorine se	nsor CP2.1						
		Measuring range in ppm			Resolution in ppm	Nominal slope	
	HUn	0.005	_	2.000	0.001	-1000 mV/ppm	<u>.</u>
	N	0.05	-	20.00	0.01	-100 mV/ppm	
	Up	0.05	-	20.00	0.01	+100 mV/ppm	
	MA0.5	0.05	-	0.50	0.01	32.0 mA/ppm	
	MA2	0.01	-	2.00	0.01	8.0 mA/ppm	
	MA5	0.01	-	5.00	0.01	3.2 mA/ppm	
	MA10	0.01	-	10.00	0.01	1.6 mA/ppm	
	MA20	0.01	-	20.00	0.01	0.8 mA/ppm	

CP 2.1 -	MA 2	(example order)	
C1 Z.1 -	/41/A Z	(CAGITIPIC OLGCI)	

Your selection

CD 2 1	
CP 2 1 - 1	
C: 2.1	

Order Code

Chlor-Senso	Chlor-Sensor CP3						
		Measuring range in ppm			Resolution in ppm	Nominal slope	
	H	0.005 0.05	-	2.000	0.001 0.01	-1000 mV/ppm -100 mV/ppm	
	H-A12n	0.005	-	2.000	0.001	-1000 mV/ppm	
	N-A12n H-A24n	0.05 0.005	-	20.00 2.000	0.01 0.001	-100 mV/ppm -1000 mV/ppm	
	N-A24n H-M1-12	0.05 0.005	-	20.00 2.000	0.01 0.001	-100 mV/ppm 1000 mV/ppm	
	N-M1-12 H-M1-24	0.05 0.005	-	20.00 2.000	0.01 0.001	100 mV/ppm 1000 mV/ppm	
	N-M1-24	0.005	-	20.00	0.01	100 mV/ppm	
	MA0,5 MA2	0.05 0.01	-	0.50 2.00	0.01 0.01	32.0 mA/ppm 8.0 mA/ppm	
	MA5 MA10	0.01 0.01	-	5.00 10.00	0.01 0.01	3.20 mA/ppm 1.6 mA/ppm	
	MA20	0.01	-	20.00	0.01	0.8 mA/ppm	

CP3 - MA 2 (Example order)

CP3 -		
Cr3-		



DOSASens chlorine sensor CC 1 ...

For the measurement of free, organic chlorine (iso-cyanuric acid); greatly reduced pH dependence





Technical specifications:			
CC 1			
	- with electrolyte EC	C1/GEL:	swimming-pool water/drinking water
Area of use	- with electrolyte EC	C1S/GEL:	sea water
	Tensides are partly t		
	NaOCI (= sodium hy		,
Suitable chlorinating agents	Ca(OCI)2, chlorine o	gas, electro mpunds on	lytically generated chlorine und a iso-cyanuric-acid basis (tested
	for up to 500 mg/l iso		
Measuring system	integrated electroni	ic	metric 3-electrode system with
Electronic	analog version: mA version:	electronic processing signal out analog (courrent or galvanication for (restrict range; signal out	put: analog-out/analog) utput; not ally isolated electronics with poticated) adjustment of measuring
Indicator	Free chlorine		
Operating temperature	>5 - <45 °C		
Temperature compensation	automatically, by a	n integrated	d temperature sensor
max. allowed operating pressure	0.5 bar, no pressure	impulses ar	nd/or vibrations
Flow rate	approx. 30 l/h		
pH-range	pH 4 – pH 12; greatly	y reduced p	oH dependence
Run-in time	First start-up approx.	. 2 h	
Response time	T90: approx. 2 min.		
Zero point adjustment	Not necessary		
Slope adjustment	At the device, by ar centration, DPD-1-m		termination of the chlorine con-
Interferences	CIO2: is measured on the contract of the contr		
Connection	analog: mA:		ug adapter rminal (2 x 1 mm²)
Material	Microporous hydrop		rane , PVC-U, stainless steel 1.4571
Dimensions	Diameter: Length:	approx. 2 analog-o 4-20 mA	25 mm but/analog approx. 175 mm approx. 220 mm
Storage	Probe: Membrane cap : Electrolyte:	Can be sto electrolyte >5->40°C Used mem in original	ored frost-free, dry and without e for an unlimited time at hbrane caps cannot be stored! bottle and protected from sun ast 1 year at >5 - <25 °C
Maintenance		ne measurin e membrane	g signal: at least once a week e cap: once a year (depending
	Replacement of ele		ery 3 - 6 months
	Membrane cap:	M48.1	0.70 0 1110111113
Spare parts	Electrolyte:	ECC1/G	GEL GEL for brine water
All rights reserved concerning te			



Technical Data:

CC1 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
CC1HUn	0.005 – 2.000	0.001	02000 mV 1 kΩ	-1000 mV/ppm	±5 - ±12,5 VDC 10 - 25 VDC 25 mA	4-pol.
CC1N	0.05 – 20.00	0.01	02000 mV 1 k'Ω	-100 mV/ppm	±5 - ±15 VDC 10 mA	plug

CC1 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection	
C€		EMV-Testing DIN EN 61326-1 RoHS compliant					
CC1MA2	0.01 – 2.00	0.01	4 00 4	8.0 mA/ppm	10 00 \ (D 0		
CC1MA5	0.01 – 5.00	0.01	4 20 mA uncalibrated	3.2 mA/ppm	12 – 30 VDC R _L 50Ω…R _L 900Ω	2-pol. terminal	
CC1MA10	0.01 – 10.00	0.01	or realistated	1.6 mA/ppm	11. 00321(1 / 0032	10.11111101	

Order Code

Oraci Coa							
Chlorine se	nsor CC1						
		Measurir	ng rang	e in ppm	Resolution in ppm	Nominal slope	
	HUn	0.005	-	2.000	0.001	-1000 mV/ppm	
	N	0.05	-	20.00	0.01	-100 mV/ppm	
	MA2	0.01	-	2.00	0.01	8.0 mA/ppm	
	MA5	0.01	-	5.00	0.01	3.2 mA/ppm	
	MA10	0.01	-	10.00	0.01	1.6 mA/ppm	

CC1 - MA 2 (Example order)

CC1 -	
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DOSASens chlorine sensor CN1...

to verify the absence of free chlorine; pH dependent



reclinical specifications.						
CN1						
Area of use	To varify the absence of chlorine in water with drinking-water quality (e. g. reverse osmosis)					
Suitable chlorinating agents	NaOCI (= sodium hypochlorite), Ca(OCI)2, chlorine gas, electrolytically generated chlorine					
Measuring system	Membrane-covered, amperometric 3-electrode system with integrated electronic					
Electronics	digital version: electronic is completely galvanically isolated; digital internal data processing; Signal output: optional analog (analog-out/digital) or digital (digital-out/digital)					
Indicator	Free chlorine					
Operating temperature	>5 - <40 °C					
Temperature compensation	automatically, by an integrated temperature sensor					
max. allowed operating pressure	0.5 bar, no pressure impulses and/or vibrations					
Flow rate	approx. 30 l/h					
pH-range	pH 6.5 – pH 9 (pH dependence)					
Run-in time	First start-up: ~ 24 h After maintenance (replacement of electrolyte): ~ 6 h					
Response time	T90: approx. 2 min.					
Zero point adjustment	Not necessary					
Slope adjustment	 Ensure constant chlorine content in the sample water; make DPD-1-analysis If no chlorine may be present in the sample water, use external calibration EKV-1 and DPD-1-analysis 					
Interferences	CIO2; O3; combined chlorine may increase the measurement value; reducing agents may lead to slope loss					
Connection	Analog: 4-pol. screw plug Digital: 5-pol. M12 flange plug					
Material	Microporous hydrophilic membrane , PVC, stainless steel 1.4571					
Dimensions	Diameter: approx. 25 mm Length: analog-out/analog approx. 175 mm analog-out/digital approx. 195 mm digital-out/digital approx. 205 mm					
Storage	Probe: Can be stored frost-free, dry and without electrolyte for an unlimited time at >5->40°C Membrane cap: Used membrane caps cannot be stored! Electrolyte: in original bottle and protected from sun light at least 1 year at >5 - <25 °C					
Maintenance	Regular control of the measuring signal: at least once a week Replacement of the membrane cap: once a year (depending on the water quality) Replacement of electrolyte: every 3 - 6 months					
Spare parts	Membrankappe: M48.1G Elektrolyt: ECN1/Gel					



CN1 (analog output, analog internal signal processing)

analog-out / digital

- The power supply is galvanically isolated inside the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€		EMV-Testing DIN EN 61326-1 RoHS compliant				
CN1H-A12n	0.005 - ca. 2.000	0.001	02000 mV	-1000 mV/ppm	12 VDC (11.5 – 13 VDC	4-pol.
CN1N-A12n	0.05 - ca. 20.00	0.01	(max2500mV) 1 k'Ω	-100 mv/ppm	±6 VDC approx. 40 mA	plug
CN1H-A24n	0.005 - ca. 2.000	0.001	02000 mV (max2500mV)	-1000 mV/ppm	24 VDC (22.5 – 26 VDC	4-pol.
CN1N-A24n	0.05 – ca. 20.00	0.01	1 kΩ	-100 mv/ppm	±12 VDC approx. 20 mA	plug

CN1 (digital output, digital internal signal processing)

digital-out / digital

- The power supply is galvanically isolated inside the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€			EMV-Testing DIN RoHS com			
CN1H-M1-12	0.005 - ca. 2.000	0.001	Madbus DIII	1000 mV/ppm	12 VDC (+11,5 – +13 VDC	5-pol M12
CN1N-M1-12	0.05 – ca. 20.0	0.01	Modbus RTU	100 mV/ppm	±6 VDC approx. 40 mA	Flange plug
CN1H-M1-24	0.005 - ca. 2.000	0.001	Modbus RTU	1000 mV/ppm	24 VDC (+22,5 – +26 VDC	5-pol M12
CN1N-M1-24	0.05 - ca. 20.00	0.01	MOGDUS RTU	100 mV/ppm	±6 VDC approx. 40 mA	Flange plug



Order Code

Chlorine sensor CN1									
		Measuring range in ppm		Measuring range in ppm Resolution in ppm		Nominal slope			
	H-A12n	0.005	-	2.000	0.001	-1000 mV/ppm			
	N-A12n	0.05	-	20.00	0.01	-100 mV/ppm			
	H-A24n	0.005	-	2.000	0.001	-1000 mV/ppm			
	N-A24n	0.05	-	20.00	0.01	-100 mV/ppm			
	H-M1-12	0.005	-	2.000	0.001	1000 mV/ppm			
	N-M1-12	0.05	-	20.00	0.01	100 mV/ppm			
	H-M1-24	0.005	-	2.000	0.001	1000 mV/ppm			
	N-M1-24	0.005	-	20.00	0.01	100 mV/ppm			

CN1 -		
U		



DOSASens bromine sensor BR1...

For the measurement of bromine



Technical specifications:						
	Drinking water swim	aming pool water process water				
Area of use	Hypobromous acid	nming-pool water; process water;				
Suitable bromine agents	1-Bromo-3-chloro-5.	5-dimethyl-hydantoin (BCDMH)				
Measuring system	system with integrat					
Electronic	analog version: digital version: mA version:	voltage output; not galvanically isolated electronics; analog internal data processing; Signal output: analog (analog-out/analog) electonic is completely galvanically isolated; digital internal data processing; Signal output: optional analog (analog-out/digital) or digital (digital-out/digital) current output; analog, not galvanically isolated electronics with poti for (restricted) adjustement of measuring range Signal output: analog (analog-out/analog)				
Indicator	Hypobromous acid					
Operating temperature	>5 - <45 °C					
Temperature compensation	automatically, by a	n integrated temperature sensor				
max. allowed operating pressure	0.5 bar, no pressure impulses and/or vibrations					
Flow rate	approx. 30 l/h					
pH-range	pH 6.5 – pH 9.5; Sign	nal wird mit steigendem pH-Wert geringer				
Run-in time	First start-up approx	. 2 h				
Response time	T90: approx. 2 min.					
Zero point adjustment	Not necessary					
Slope adjustment	At the device, by a centration Recommendation:					
Interferences	Cl2: is measured ClO2: is measured on is measured on is measured on the control of the control o	d d				
Connection	analog-out/analog: analog-out/digital: digital-out/digital: 4-20 mA:					
Material	Microporous hydrop	philic membrane , PVC-U, stainless steel 1.4571				
Dimensions	Diameter: Length:	approx. 25 mm analog-out/analog approx. 175 mm analog-out/digital approx. 195 mm digital-out/digital approx. 205 mm 4-20 mA approx. 220 mm				
Storage	Probe: Membrane cap : Electrolyte:	Can be stored frost-free, dry and without electrolyte for an unlimited time at >5->40°C Used membrane caps cannot be stored! in original bottle and protected from sun light at least 1 year at >5 - <25°C				



Maintenance	Regular control of the measuring signal: at least once a week Replacement of the membrane cap: once a year (depending on the water quality) Replacement of electrolyte: every 3 - 6 months	
Spare parts	Membrane cap: M48.1 Electrolyte: EBR1/Gel	

BR1 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
BR1N	0.05 – 20.00	0.01	02000 mV 1 k'Ω	-100 mV/ppm	±5 - ±15 VDC 10 mA	4-pol. plug

BR1 (analog output, analog internal signal processing)

analog-out / digital

- The power supply is galvanically isolated inside of the sensor
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€		EMV-Testing DIN EN 61326-1 RoHS compliant				
BR1N-A12n	0.05 – 20.00	0.01	02000 mV (max2500mV) 1 kΩ	-100 mV/ppm	12 VDC (11.5 – 13 VDC ±6 VDC approx. 40 mA	4-pol. plug
BR1N-A24n	0.05 – 20.00	0.01	02000 mV (max2500mV) 1 kΩ	-100 mV/ppm	24 VDC (22.5 - 26 VDC ±12 VDC approx. 20 mA	4-pol. plug



BR1 (digital output, digital internal signal processing)

digital-out / digital

- The power supply is galvanically isolated inside of the sensor
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€			_	DIN EN 61326-1 compliant		
BR1N-M1-12	0.05 – 20.00	0.01	Modbus RTU	100 mV/ppm	12 VDC (+11.5 - +13 VDC ±6 VDC approx. 40 mA	5-pol M12 Flange plug
BR1N-M1-24	0.05 – 20.00	0.01	Modbus RTU	100 mV/ppm	24 VDC (+22.5 – +26 VDC ±6 VDC approx. 40 mA	5-pol M12 Flange plug

BR1 4-20mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection		
C€		EMV-Testing DIN EN 61326-1 RoHS compliant						
BR1MA-2	0.05 – 2.00	0.1	4 00 4	8.0 mA/ppm	12 – 30 VDC	0 1		
BR1MA-5	0.05 – 5.00	0.1	4 20 mA uncalibrated	3.2 mA/ppm	$R_L 50\OmegaR_L$	2-pol. terminal		
BR1MA-10	0.05 – 10.00	0.1	oricalibratea	1.6 mA/ppm	900Ω	TOTTILITAL		

Order Code

Bromine sensor BR1								
		Measurii	ng rang	e in ppm	Resolution in ppm	Nominal slope		
	Ν	0.05	-	20.00	0.01	-100 mV/ppm		
	N-A12n	0.05	-	20.00	0.01	-100 mV/ppm		
	N-A24n	0.05	-	20.00	0.01	-100 mV/ppm		
	N-M1-12	0.05	-	20.00	0.01	100 mV/ppm		
	N-M1-24	0.05	-	20.00	0.01	100 mV/ppm		
	MA2	0.05	-	2.00	0.1	8.0 mA/ppm		
	MA5	0.05	-	5.00	0.1	3.2 mA/ppm		
	MA10	0.05	-	10.00	0.1	1.6 mA/ppm		

BR1 –	MA 2	(example order)	
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BR1 -



DOSASens chlorite sensor MST1N...

For the measurement of chlorite





MST1N					
Area of use	Drinking water, swin	nming-pool water, process water			
Suitable chlorine dioxide agents	(chlorite/oxidizer-m				
Measuring system	Membrane-covered, amperometric potentiostatic 3-electrode system with integrated electronic				
Electronic	Digital version:	electronic is completely galvanically isolated; digital internal signal processing; output signal: analog or digital			
Indicator	Chlorite				
Operating temperature	>5 - <40 °C				
Temperature compensation	automatically, by a	n integrated temperature sensor			
max. allowed operating pressure	approx. 0,3°C/min.				
Flow rate	approx. 30 l/h				
pH-range	pH 6 – pH 9				
Run-in time	First start-up approx	c. 24 h			
Response time	T90: approx. 1 min				
Zero point adjustment	usually not required				
Slope adjustment	concentration	nalytical determination of the chlorite			
Interferences		chlorine dioxide, chlorine and chlorate			
Connection	analog-out/digital: digital-out/digital:	4-pol. plug adapter 5-pol. M12 flange plug			
Material	Microporous hydrop	philic membrane , PVC, stainless steel			
Dimensions	Diameter: Length:	approx. 25 mm analog-out/digital approx. 195 mm digital-out/digital approx. 205 mm			
Storage	Probe: Membrane cap:	Can be stored frost-free, dry and without electrolyte for an unlimited time at >5->40°C Used membrane caps cannot be stored!			
	Electrolyte:	in original bottle and protected from sun light at least 1 year at >5 - <25 °C			
Maintenance	Regular control of the measuring signal: at least once a week Replacement of the membrane cap: once a year (depending on the water quality) Replacement of electrolyte: every 3 - 6 months				
Spare parts	Membrane cap: Electrolyte:	M48.1 EMST1N/Gel			



MST1N (analog output, analog internal signal processing)

analog-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output-resistance	Nominal slope	Power supply	Connection		
C€			_	DIN EN 61326-1 compliant				
MST1NL-A12n	0.05 – 2.00	0.01	analog 02000 mV (max2500mV) 1 kΩ	-100 mV/ppm	12 VDC (11.5 – 13 VDC ±6 VDC approx. 40 mA	4-pol. plug		
MST1NL-A24n	0.05 – 2.00	0.01	02000 mV (max2500mV) 1 kΩ	-100 mV/ppm	24 VDC (22.5 - 26 VDC ±12 VDC approx. 20 mA	4-pol. plug		

MST1N (digital output, digital internal signal processing)

digital-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€				DIN EN 61326-1 compliant		
MST1NL-M1- 12	0.05 – 2.00	0.01	Modbus RTU	100 mV/ppm	12 VDC (+11.5 - +13 VDC ±6 VDC approx. 40 mA	5-pol M12 Flange plug
MST1NL-M1- 24	0.05 – 2.00	0.01	Modbus RTU	100 mV/ppm	24 VDC (+22,5 – +26 VDC ±6 VDC approx. 20 mA	5-pol M12 Flange plug



Order Code

Chlorite sensor MST1N								
		Measuring range in ppm		Measuring range in ppm Resolution in ppm		Nominal slope		
	N-A12n	0.05	-	2.00	0.01	-100 mV/ppm		
	N-A24n	0.05	-	2.00	0.01	-100 mV/ppm		
	N-M1-12	0.05	-	2.00	0.01	100 mV/ppm		
	N-M1-24	0.05	-	2.00	0.01	100 mV/ppm		

MST1N -	N-A12n	(Example order)	
W211N -	N-A I∠N	(Example order)	

MST1N -		



DOSASens chlorine dioxide sensor CD4...

for the measurement of chlorine dioxide





CD4	
Area of use	Swimming-pool water, drinking water, process water;
	It must not contain tensides. Membrane-covered, amperometric 2-electrode system with
Measuring system	integrated electronic
Electronic	analog version: voltage output; not galvanically isolated electronics; analog internal data processing; signal output: analog (analog-out/analog) mA version: current output; not galvanically isolated electronics with poti for (restricted) adjustment of measuring range; signal output: analog (analog-out/analog)
Indicator	chlorine dioxide
Operating temperature	>5 - <45 °C
Temperature compensation	automatically, by an integrated temperature sensor
Max. allowed operating pressure	1.0 bar, no pressure impulses and/or vibrations
Flow rate	approx. 30 l/h
pH-range	pH 1 – pH 11
Run-in time	First start-up approx. 1 h
Response time	T90: approx. 15 sec.
Zero point adjustment	Not necessary
Slope adjustment	At the device, by analytical determination
Interferences	CI2: is measured with factor 0.03 of its measurement value O3: is measured
Connection	analog-out/analog: 4-pol. screw-connector connection 4-20 mA: 2-pol terminal (2 x 1 mm²)
Material	semipermeable membrane, PVC-U
Dimensions	diameter: approx. 25 mm length: approx. 175 mm (4-pol-screw connector) approx. 220 mm (4-20 mA, 2-pol. terminal)
Storage	Probe: Can be stored frost-free, dry and without electrolyte for an unlimited time at >5->40°C Membrane cap: Used membrane caps cannot be stored! Electrolyte: in original bottle and protected from sun light at least 1 year at >5 - <25 °C
Maintenance	Regular control of the measuring signal: at least once a week Replacement of the membrane cap: once a year (depending on the water quality) Replacement of electrolyte: every 3 - 6 months
Spare parts	Membrane cap: M20 Electrolyte: ECD4/W - ECD7/W



CD4 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
CD4H	0.005 – 2.000	0.001	02000 mV	-1000 mV/ppm	±5 - ±15 VDC	4-pol.
CD4N	0.05 – 20.00	0.01	1 ΚΩ	-100 mV/ppm	10 mA	plug

CD4 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€	EMV-Testing DIN EN 61326-1 RoHS compliant					
CD4MA0,5	0.005 – 0.50	0.01		32.0 mA/ppm		
CD4MA2	0.05 – 2.00	0.01	420 mA	8.0 mA/ppm	1230 VDC	2-pol.
CD4MA5	0.05 – 5.00	0.01	uncalibrated	3.20 mA/ppm	R _L 50Ω…R _L 900Ω	terminal
CD4MA10	0.05-10.00	0.01		1.6 mA/ppm		

Order Code

Chlorine di	Chlorine dioxide sensor CD4									
		Measuring range in ppm		e in ppm	Resolution in ppm	Nominal slope				
	Н	0.005	_	2.000	0.001	-1000 mV/ppm				
	Ν	0.05	-	20.00	0.01	-100 mV/ppm				
	MA0.5	0.01	-	0.50	0.01	32.0 mA/ppm				
	MA2	0.01	-	2.00	0.01	8.0 mA/ppm				
	MA5	0.01	-	5.00	0.01	3.20 mA/ppm				
	MA10	0.01	-	10.00	0.01	1.6 mA/ppm				

CD4 - MA 2 (example order)

CD4 -		



DOSASens chlorine dioxide sensor CD7...

for measurement of chlorine dioxide; with surfactant-resistant membrane



Technical specifications:						
CD7						
Area of use	All types of water tre (z. B. bottle washer,					
Measuring system	Membrane-covered, amperometric 2-electrode system					
Electronic	analog version: mA version:	voltage output; not galvanically isolated electronics; analog internal data processing; signal output: analog (analog-out/analog) current output; not galvanically isolated electronics with poti for (restricted) adjustment of measuring range; signal output: analog (analog-out/analog)				
Indicator	chlorine dioxide					
Operating temperature	>5 - <50 °C					
Temperature compensation	automatically, by ar temperature chang	n integrated temperature sensor es <5°C				
Max. allowed operating pressure	1.0 bar, no pressure	impulses and/or vibrations				
Flow rate	approx. 30 l/h,					
pH-range	pH 1 – pH 11					
Run-in time	First start-up approx.	.1 h				
Response time	T90: approx. 1.5 min					
Zero point adjustment	Not necessary					
Slope adjustment	At the device, by a	nalytical determination				
Interferences		with 25 times the sensitivity as CIO2				
Connection	analog-out/analog: 4-20 mA:	4-pol. screw connector 2-pol terminal (2 x 1 mm²)				
Material	PVC-U, stainless stee					
Dimensions	Length:	approx. 25 mm approx. 175 mm (4-pol-screw connector) approx. 220 mm (4-20 mA, 2-pol. terminal)				
Storage	Probe: Membrane cap : Electrolyte:	Can be stored frost-free, dry and without electrolyte for an unlimited time at >5->40°C Used membrane caps cannot be stored! in original bottle and protected from sun light at least 1 year at >5 - <25°C				
Maintenance	Replacement of the on the water quality Replacement of ele	ne measuring signal: at least once a week membrane cap: once a year (depending ') ctrolyte: every 3 - 6 months				
Spare parts	·	M7L only for CD7L M7N ECD4/W - ECD7/W				



CD7 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
CD7H	0.005 – 2.000	0.001	0 0000 1/	-1000 mV/ppm		4-pol.
CD7N	0.05 – 20.00	0.01	02000 mV 1 kΩ	-100 mV/ppm	±5 - ±15 VDC 10 mA	plug
CD7L	0 – 200	0.1	1 1/22	-10 mV/ppm	101117	

CD7 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€			EMV-Testing D RoHS co	DIN EN 61326-1 Empliant		
CD7MA0,5	0.00 – 0.50	0.01		32.0 mA/ppm		
CD7MA2	0.00 – 2.00	0.01	4 00 4	8.0 mA/ppm	1230 VDC R _L 50ΩR _L 900Ω	2-pol. terminal
CD7MA5	0.00 – 5.00	0.01	420 mA uncalibrated	3.20 mA/ppm		
CD7MA10	0.00-10.00	0.01		1.6 mA/ppm		TOTTIITIO
CD7MA20	0.00 – 20.00	0.01		0.8 mA/ppm		

Order Code

Chlorine di	Chlorine dioxide sensor CD7									
		Measuring range in ppm		e in ppm	Resolution in ppm	Nominal slope				
	Н	0.005	-	2.000	0.001	-1000 mV/ppm				
	N	0.05	-	20.00	0.01	-100 mV/ppm				
	L	0	-	200	0.1	-10 mV/ppm				
	MA0,5	0.00	-	0.50	0.01	32.0 mA/ppm				
	MA2	0.00	-	2.00	0.01	8.0 mA/ppm				
	MA5	0.00	-	5.00	0.01	3.20 mA/ppm				
	MA10	0.00	-	10.00	0.01	1.6 mA/ppm				
	MA20	0.00	-	20.00	0.01	0.8 mA/ppm				

CD7 -	MA 2	(example order)		
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CD7 -			
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DOSASens ozone sensor OZ1...

for the measurement of dissolved ozone in water



Technical specifications:				
OZ1				
Area of use	Swimming-pool water, drinking water, process water The water must not contain surfactant!			
Measurement principle	Membrane-covered, amperometric 2-electrode system			
Electronic	analog version: voltage output; not galvanically isolated electronics; analog internal data processing; signal output: analog (analog-out/analog) mA version: current output; not galvanically isolated electronics with poti for (restricted) adjustment of measuring range; signal output: analog (analog-out/analog)			
Indicator	Ozone			
Operating temperature	>5 – <45 °C			
Temperature compensation	automatically, by an integrated temperature sensor			
max. allowed operating pressure	1.0 bar, no pressure impulses and/or vibrations			
Flow rate	approx. 30 I/h			
pH-range	pH 2 - pH 11			
Run-in time	First start-up approx. 2 h			
Response time	T90: approx. 15 sec.			
Zero point adjustment	not necessary			
Slope calibration	At the device, by analytical determination			
Interferences	CI2: is measured with a factor of 0.03 CIO2: is measured with a factor of 0.7			
Connection	analog-out/analog: 4-pol. Plug adapter 4-20 mA: 2-pol. terminal (2 x 1 mm²)			
Material	semipermeable membrane, PVC			
Dimensions	diameter: approx. 25 mm length: analog-out/analog approx. 175 mm 4-20 mA approx. 220 mm			
Storage	Probe: Can be stored frost-free, dry and without electrolyte for an unlimited time at >5->40°C Membrane cap: Used membrane caps cannot be stored! Electrolyte: in original bottle and protected from sun light at least 1 year at >5 - <25°C			
Maintenance	Regular control of the measuring signal: at least once a week Replacement of the membrane cap: once a year (depending on the water quality) Replacement of electrolyte: every 3 - 6 months			
Spare parts	Membrane cap: M20 Electrolyte: EOZ1			



OZ1 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
OZ1H	0.005 – 2.000	0.001	02000 mV	-1000 mV/ppm	±5 - ±15 VDC	4-pol.
OZ1N	0.05 – 20.00	0.01	1 ΚΏ	-100 mV/ppm	10 mA	plug

OZ1 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection	
C€	EMV-Testing DIN EN 61326-1 RoHS compliant						
OZ1MA0.5	0.01 – 0.50	0.01		32.0 mA/ppm			
OZ1MA2	0.01 – 2.00	0.01	420 mA	8.0 mA/ppm	1230 VDC	2-pol.	
OZ1MA5	0.01 – 5.00	0.01	uncalibrated	3.20 mA/ppm	R _L 50ΩR _L 900Ω	terminal	
OZ1MA10	0.01 – 10.00	0.01		1.6 mA/ppm			

Order code

Ozone sense	Ozone sensor OZ1									
		Measuring range in ppm		Measuring range in ppm Resolution in ppm		Nominal slope				
	Н	0.005	_	2.000	0.001	-1000 mV/ppm				
	N	0.05	-	20.00	0.01	-100 mV/ppm				
	MA0.5	0.01	-	0.50	0.01	32.0 mA/ppm				
	MA2	0.01	-	2.00	0.01	8.0 mA/ppm				
	MA5	0.01	-	5.00	0.01	3.20 mA/ppm				
	MA10	0.01	-	10.00	0.01	1.6 mA/ppm				

OZ1 - MA 2 (example order)

OZ1 -		
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DOSASens ozone sensor OZ7...

for the measurement of dissolved ozone in water; with tenside-resistant membrane



Technical specifications:			
OZ7			
Area of use	All types of water tr Tensides are tolerate. (z. B. bottle washer.	ted!	
Measurement principle	Membrane-covere	d , amperometric 2-electro	de system
Electronic	analog version: mA version:	voltage output; not galvelectronics; analog interreprocessing; signal output: analog (analog-out/analog vanically isolated elector (restricted) adjustmentange; signal output: analog (analog-out/analog (analog-out/analog)	nal data log) etronics with poti t of measuring
Indicator	ozone		
Operating temperature	>5 - <50 °C		
Temperature compensation		an integrated temperature s rature: <5°C per hour	ensor
max. allowed operating pressure	1.0 bar, no pressure	e impulses and/or vibrations	
Flow rate	approx. 30 l/h		
pH-range	pH 2 – pH 12		
Run-in time	First start-up approx	k. 1 h	
Response time	T90: approx. 50 sec		
Zero point adjustment	Not necessary		
Slope calibration	At the device, by c	ınalytical determination	
Interferences	va OZ7N: ne	ads to measurement lues increased by 1.5% gligible ads to a measurement value	increased by 6%
Connection	analog-out/analog 4-20 mA:		
Material	PVC-U, stainless ste	el 1.4571	
Dimensions	Diameter: Length:	analog-out/analog 4-20 mA	approx. 25 mm approx. 175 mm approx. 220 mm
Storage	Probe: Membrane cap : Electrolyte:	Can be stored frost-free, and electrolyte for an unlimite >5->40°C Used membrane caps cain original bottle and protological light at least 1 year at >5-	nnot be stored! ected from sun
Maintenance	Replacement of th on the water qualit Replacement of ele	the measuring signal: at leas e membrane cap: once a y y) ectrolyte: every 3 - 6 months	t once a week ear (depending
Spare parts	Membrane cap: Electrolyte:	M7N O3 only for OZ7H, OZ7 M7D O3 only for OZ7N, OZ7 EOZ7/W	



OZ7 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
OZ7H	0.005 – 2.000	0.001	02000 mV	-1000 mV/ppm	±5 - ±15 VDC	4-pol.
OZ7N	0.05 – 10.00	0.01	1 ΚΏ	-100 mV/ppm	5 mA	plug

OZ7 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€	EMV-Testing DIN EN 61326-1 RoHS compliant					
OZ7MA0.2	0.05 – 0.20	0.01		80.0 mA/ppm		
OZ7MA0.5	0.05 – 0.50	0.01	, ,,	32.0 mA/ppm	1230 VDC R _L 50ΩR _L	2-pol. terminal
OZ7MA2	0.05 – 2.00	0.01	420 mA uncalibrated	8.0 mA/ppm		
OZ7MA5	0.05 – 5.00	0.01	on cambratea	3.20 mA/ppm	900Ω	1011111101
OZ7MA10	0.05 – 10.00	0.01		1.6 mA/ppm		

Order Code

Ozone sensor OZ7									
		Measuring range in ppm		Measuring range in ppm Resolution in ppm		Nominal slope			
	Н	0.005	_	2.000	0.001	-1000 mV/ppm			
	Ν	0.05	-	10.00	0.01	-100 mV/ppm			
	MA0,2	0.05	-	0.50	0.01	80.0 mA/ppm			
	MA0,5	0.05	-	0.50	0.01	32.0 mA/ppm			
	MA2	0.05	-	2.00	0.01	8.0 mA/ppm			
	MA5	0.05	-	5.00	0.01	3.20 mA/ppm			
	MA10	0.05	-	10.00	0.01	1.6 mA/ppm			

OZ7 - MA 2 (example order)

077		
027 -		



DOSASens hydrogen peroxide sensor WP 7

for the measurement for hydrogen peroxide; with tenside-resistant membrane



Technical specifications:	-					
WP7						
Area of use	All types of water					
		ner, CIP plant, rinser)				
Measurement principle		red, amperometric 2-electro				
Electronic	analog version: mA version:	voltage output; not galelectronics; analog interprocessing; signal output: analog (analog-out/anacurrent output; not galvanically isolated elefor (restricted) adjustme range; signal output; analog (analog-out/analog)	rnal data alog) ectronics with poti nt of measuring			
Indicator	hydrogen peroxid	de				
Operating temperature	>5 - <45 °C					
Temperature compensation	automatically, by Changes of temp	an integrated temperature peratur <5°C	sensor			
max. allowed operating pressure	1.0 bar, no pressi	ure impulses and/or vibration	S			
Flow rate	approx. 30 I/h					
pH-range	pH 2 – pH 12					
Run-in time	First start-up approx. 3 h					
Response time	T90: approx. 510 min.					
Zero point adjustment	not necessary					
Slope calibration	At the device, by	analytical determination				
Interferences	PES: r O3: r Sulphides: p Phenol: c	nust not be present nust not be present nust not be present poison the measurement syste aqueous solution >3 % pheno nembrane system				
Connection	analog-out/analog-	og: 4-pol. screw connect 2-pol. terminal (2 x 1 r				
Material	PVC-U, stainless st	teel 1.4571				
Dimensions	Diameter: Length:	analog-out/analog 4-20 mA	approx. 25 mm approx. 175 mm approx. 220 mm			
Storage	Probe: Membrane cap : Electrolyte:	Can be stored frost-free, electrolyte for an unlimite >5->40°C Used membrane caps or in original bottle and prolight at least 1 year at >5	annot be stored!			
Maintenance	Replacement of on the water qua	f the measuring signal: at leat the membrane cap: once a	st once a week year (depending			
Spare parts	Membrane cap: Electrolyte:	M7N M7D nur bei WP77MA-XM EWP7/W				



WP7 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
WP7HUn	0.0 – 200.0	0.1	02000 mV	-10 mV/ppm	±5 - ±12,5 VDC	4-pol.
WP7Un	0 – 2000	1	1 ΚΏ	-1 mV/ppm	10 – 25 VDC 25 mA	plug

WP7 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€				g DIN EN 61326-1 5 compliant		
WP7MA-CC	0.0 – 200.0	0.1		0.08 mA/ppm		
WP7MA-D	0.0 – 500.0	0.1	4 00 4	0.032mA/ppm	1230 VDC R ₁ 50ΩR ₁ 900Ω	
WP7MA-M	0.0 - 1000	1	420 mA uncalibrated	0.016 mA/ppm		2-pol. terminal
WP7MA-MM	0.0 – 2000	1	onealibratea	0.008 mA/ppm	N_ 0032N_ 70032	TOTTILITAL
WP7MA-XM	0 – 10000	10		0.0016 mA/ppm		

Order Code

Hydrogen peroxide sensor WP7										
		Measuring range in ppm		Measuring range in ppm Resolution in ppm		Nominal slope				
	HUn	0.0	-	200.0	0.1	-10 mV/ppm				
	Nun	0	-	2000	1	-1 mV/ppm				
	MA-CC	0.0	-	200.0	0.1	0.08 mA/ppm				
	MA-D	0.0	-	500.0	0.1	0.032mA/ppm				
	MA-M	0.0	-	1000	1	0.016 mA/ppm				
	MA-MM	0.0	-	2000	1	0.008 mA/ppm				
	MA-XM	0	-	10000	10	0.0016 mA/ppm				

WP7 - MA-D (example order)

WP7 –		
VV F / -		



DOSASens hydrogen peroxide sensor WP 10

for the measurement for hydrogen peroxide; with tenside-resistant membrane





WP10					
Area of use	concentrations.	reatment, especially for high H ₂ O ₂ -stem is highly resistant to tensides.			
Measurement principle		ed, amperometric 2-electrode system			
Electronic	digital version: mA version:	electronic is completely galvanically isolated, digital internal data processing; output signal: analog or digital current output; not galvanically isolated electronics with poti for (restricted) adjustment of measuring range; signal output: analog (analog-out/analog)			
Indicator	Hydrogen peroxid	е			
Operating temperature	>5 - <45 °C				
Temperature compensation		an integrated temperature sensor erature <5°C / h, T90: approx. 8 min.			
max. allowed operating pressure	1.0 bar, no pressu	re impulses and/or vibrations			
Flow rate	approx. 30 l/h				
pH-range	pH 2 – pH 11				
Run-in time	First start-up approx. 3 h				
Response time	T90: approx. 510 min.				
Zero point adjustment	not necessary				
Slope calibration	At the device, by	analytical determination			
Interferences	PES: m O3: m Sulphides: po Phenol: ac	ust not be present ust not be present ust not be present bison the measurement system queous solution >3 % phenol, destroys the embrane system			
Connection	analog-out/digital digital-out/digital: 4-20 mA:	,			
Material	PVC-U, stainless ste	eel 1.4571			
Dimensions	Diameter: Length:	approx. 25 mm analog-out/digital approx. 195 mm digital-out/digital approx. 205 mm 4-20 mA approx. 220 mm			
Storage	Probe: Membrane cap : Electrolyte:	Can be stored frost-free, dry and without electrolyte for an unlimited time at >5->40°C Used membrane caps cannot be stored! in original bottle and protected from sun light at least 1 year at >5 - <25°C			
Maintenance	Regular control of the measuring signal: at least once a week Replacement of the membrane cap: once a year (depending on the water quality) Replacement of electrolyte: every 3 - 6 months				
Spare parts	Membrane cap: Electrolyte:	M10G with G-holder EWP7/W			



WP10 (analog output, digital internal signal processing)

analog-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection	
C€			_	DIN EN 61326-1 compliant			
WP10L-A12n	0 – 2% (20000 ppm)	0.001 % (10 ppm)	analog 02000 mV	-1000 mV/% (-0.1 mV/ppm)	12 VDC (11.5 – 13 VDC	4-pol.	
WP10-20%- A12n	0 – 20% (200000 ppm)	0.01 % (100 ppm)	(max2500mV) 1 kΩ	-100 mV/% (-0.01 mV/ppm)	±6 VDC approx. 40 mA	plug	
WP10L-A24n	0 – 2% (20000 ppm)	0.001 % (10 ppm)	02000 mV (max2500mV)	-1000 mV/% (-0.1 mV/ppm)	24 VDC (22.5 – 26 VDC	4-pol.	
WP10-20%- A24n	0 – 20% (200000 ppm)	0.01 % (100 ppm)	(max2500mv) 1 kΩ	-100 mV/% (-0.01 mV/ppm)	±12 VDC approx. 20 mA	plug	

WP10 (Digital output / digital internal signal processing)

digital-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Тур	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection		
C€			_	DIN EN 61326-1 compliant				
WP10L-M1-12	0 – 2% (20000 ppm)	0.001 % (10 ppm)		1000 mV/% (0.1 mV/ppm)	12 VDC (+11.5 – +13 VDC	5-pol M12		
WP10-20%- M1-12	0 – 20% (200000 ppm)	0.01 % (100 ppm)	Modbus RTU	100 mV/% (0.01 mV/ppm)	±6 VDC approx. 40 mA	Flange plug		
WP10L-M1-24	0 – 2% (20000 ppm)	0.001 % (10 ppm)	Ma alla va DTII	1000 mV/% (0.1 mV/ppm)	24 VDC (+22.5 – +26 VDC	5-pol		
WP10-20%- M1-24	0 – 20% (200000 ppm)	0.01 % (100 ppm)	Modbus RTU	100 mV/% (0.01 mV/ppm)	±6 VDC approx. 20 mA	M12 Flange plug		



WP10 4-20 mA (Analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection	
C€	EMV-testing DIN EN 61326-1 RoHS compliant						
WP10MA-2%	0 – 2% (20000 ppm)	10	4 20 mA	0.0008 mA/ppm	12 – 30 VDC	2-pol.	
WP10MA-5%	0 – 5% (50000 ppm)	100	uncalibrated	0.00032 mA/ppm	R _L 50Ω…R _L 900Ω	terminal	

Order Code

Hydrogen p	Hydrogen peroxide sensor WP10									
		Measuring range in ppm		•	Resolution in ppm	Nominal slope				
	L-A12n	0	-	20.000	10	-1000 mV/ppm				
	20%-A12n	0	-	200.000	100	-100 mV/ppm				
	L-A24n	0	-	20.000	10	-1000 mV/ppm				
	20%-A24n	0	-	200.000	100	-100 mV/ppm				
	L-M1-12	0	-	20.000	10	1000 mV/ppm				
	20%-M1-12	0	-	200.000	100	100 mV/ppm				
	M1-24	0	-	20.000	10	1000 mV/ppm				
	20%-M1-24	0	-	200.000	100	100 mV/ppm				
	MA-2%	0	-	20.000	10	0.0008 mA/ppm				
	MA-5%	0	-	50.000	100	0.00032 mA/ppm				

WP10 -	MA 5%	(example order)	
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WP10 -		



DOSASens peracetic acid sensor PES 7

for the measurement of peracetic acid; with tenside-resistant diaphragm



Technical specifications: PES7					
	All types of water t	reatment.			
Area of use	, , ,	s are tolerated, Tensides must r	not be present.		
Measuring system		ed , amperometric 2-electrode	e system		
Electronic	analog version: mA version:	voltage output; not galvar electronics; analog internal processing; signal output: analog (analog-out/analog current output; not galvanically isolated electror (restricted) adjustment orange; signal output: analog (analog-out/analog)	nically isolated I data g) ronics with poti of measuring		
Indicator	Peracetic acid				
Operating temperature	>5 - <45 °C				
Temperature compensation	automatically, by a Changes in temper	an integrated temperature ser rature <5 °C	nsor		
Max. allowed operating pressure	1.0 bar, no pressur	re impulses and/or vibrations			
Flow rate	approx. 30 l/h				
pH-range	pH 1 – pH 7				
Run-in time	First start-up appro	x. 1 h			
Response time	T90: approx. 3 min.				
Zero point adjustment	Not necessary				
Slope adjustment	At the device, by	analytical determination			
Interferences	CIO2: is measure H2O2: is measure	ed with a factor of 2.500 ed with a factor of 1 ed with a factor of 0.005			
Influence of conductivity acids	on the sensor or th	1 % nitric acid in the water ha e measuring behaviour respec			
Connection	analog-out/analog 4-20 mA:	g: 4-pol. screw connector 2-pol. terminal (2 x 1 mm) ²)		
Material	PVC-U, stainless ste	eel 1.4571			
Dimensions	Diameter: Length:	analog-out/analog 4-20 mA	approx. 25 mm approx. 175 mm approx. 220 mm		
Storage	Probe: Membrane cap : Electrolyte:	Can be stored frost-free, dreelectrolyte for an unlimited >5->40°C Used membrane caps can in original bottle and protecting the street light at least 1 year at >5 - <	y and without time at not be stored! cted from sun		
Maintenance	Replacement of the on the water quali Replacement of e	the measuring signal: at least one membrane cap: once a yearly) lectrolyte: every 3 - 6 months	once a week		
Spare parts	Membrane cap: Electrolyte:	M7N M7L only for PES7L and PES7N EPS7/W EPS7L/W nur bei PES7L und P			



PES7 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
PES7H	0 – 200	0.1		-10 mV/ppm	15 110 5 VDC	
PES7N	0 – 2000	1	02000 mV	-1 mV/ppm	±5 - ±12.5 VDC 10 – 25 VDC	4-pol.
PES7L	0 – 2 % 0 – 20.000	0.001 % 10	1 k'Ω	-0.1 mV/ppm	5 mA	plug

PEST 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€				g DIN EN 61326-1 compliant		
PES7MA-CC	0 – 200	0.1		0.08 mA/ppm		
PES7MA-D	0 – 500	0.1		0.032 mA/ppm	1230 VDC R _L 50ΩR _L 900Ω	2-pol. terminal
PES7MA-M	0 – 1000	1	420 mA uncalibrated	0.016 mA/ppm		
PES7MA-MM	0 – 2000	1	on canorarea	0.008 mA/ppm		101111111111
PES7MA-5M	0 – 5000	1		0.0032 mA/ppm		

Order Code

Peracetic o	Peracetic acid sensor PES7								
		Measuri	ng rang	e in ppm	Resolution in ppm	Nominal slope			
	Н	0	-	200.0	0.1	-10 mV/ppm			
	Ν	0	-	2000	1	-1 mV/ppm			
	L	0		20.000	10	-0.1 mV/ppm			
	MA-CC	0	-	200	0.1	0.08 mA/ppm			
	MA-D	0	-	500	0.1	0.032mA/ppm			
	MA-M	0	-	1.000	1	0.016 mA/ppm			
	MA-MM	0	-	2.000	1	0.008 mA/ppm			
	MA-5M	0		5.000	1	0.0032 mA/ppm			

PES7 - MA-D (example order)

PES7 -		



DOSASens Peracetic acid sensor P9...

for the measurement of peracetic acid; with tenside-resistant diaphragm



Technical specifications:					
P9					
Area of use	All types of water treatment. Conductivity acids and tensides are tolerated. (e. g. bottle washer, CIP plant, rinser)				
Measuring system	Membrane-covered, amperometric 2-electrode system				
Electronic	analog version: voltage output; not galvanically isolated electronics; analog internal data processing; signal output: analog (analog-out/analog) Digital version: voltage output; electronic is completely galvanically isolated; digital internal data processing; Output signal: analog or digital mA version: current output; not galvanically isolated electronics with poti for (restricted) adjustment of measuring range; signal output: analog (analog-out/analog)				
Indicator	Peracetic acid				
Operating temperature	>5 - <60 °C				
Temperature compensation	automatically, by an integrated temperature sensor P9: T90: approx. 8 min. P9.2: T90: approx. 3.5 min				
Max. allowed operating pressure	1.0 bar, no pressure impulses and/or vibrations				
Flow rate	approx. 30 – 100 l/h				
pH-range	pH 1 – pH 6				
Run-in time	P9: first start-up approx. 1 h P9.2: P9.2H: first start-up approx. 3 h P9.2N: first start-up approx. 1 h P9.2L: first start-up approx. 30 min.				
Response time	T90: P9 approx. 5 min. at 10 °C approx. 1.5 min. at 50 °C P9.2 approx. 3.5 min. at 10 °C approx. 45 sec. at 50 °C				
Zero point adjustment	Not necessary				
Slope adjustment	At the device, by analytical determination				
Interferences	O3: P9: leads to a 2,500-times higher measuring value P9.2: high increase of the measuring value CIO2: P9: is measured with 100% P9.2: increases the measuring value H2O2: P9: high concentrations reduce the PAA-signal P9.2: is not measured				
Influence of conductivity	1 % sulfuric acid or 1 % nitric acid or 1% phosphoric acid in the				
Connection	water have no influence to the measuring behaviour analog-out/analog: 4-pol. screw connector analog-out/digital: 4-pol. screw connector digital-out/digital: 5-pol. M12, flange plug 4-20 mA: 2-pol. terminal (2 x 1 mm²)				



Material	PEEK, stainless steel				
Dimensions	Diameter: Length:	approx. 25 mm analog-out/analog analog-out/digital digital-out/digital 4-20 mA	approx. 175 mm approx. 195 mm approx. 205 mm approx. 220 mm		
Storage	Probe: Membrane cap: Electrolyte:	·			
Maintenance	Replacement of the on the water quality	ne measuring signal: at least e membrane cap: once a ye /) ectrolyte: every 3 - 6 months			
Spare parts	Membrane cap: M9G with G-holder only for P9N and M9N with G-holder Electrolyte: EPS7/W only for P9N and P9L EPS9H/W only for P9.2H, P9.2N, P9.2M and P9.2MA-MM EPS9L/W only for P9.2L and P92.MA-2'				

P9 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
P9N	0 – 2.000	1	02000 mV	-1 mV/ppm	±5 - ±12,5 VDC	4-pol.
P9L	0 – 2 % 0 – 20.000	0.001 % 10	1 ΚΩ	-0.1 mV/ppm	10 – 25 VDC 10 mA	plug



P9 (analog output, digital internal signal processing)

analog-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€			•	DIN EN 61326-1 compliant		
P9.2H-A12n	0 – 200	0.1	02000 mV	-10 mV/ppm	12 VDC	
P9.2N-A12n	0 – 2.000	1	(max	-1 mv/ppm	(11.5 – 13 VDC	4-pol.
P9.2L-A12n	0 – 2 % 0 – 20.000 ppm	0.001 % 10	2500mV) 1 kΩ	-0.1 mv/ppm	±6 VDC approx. 40 mA	plug
P9.2H-A24n	0 – 200	0,1	02000 mV	-10 mV/ppm	24 VDC	
P9.2N-A24n	0 – 2.000	1	(max	-1 mv/ppm	(22.5 – 26 VDC	4-pol.
P9.2L-A24n	0 - 2 % 0 - 20.000 ppm	0.001 % 10	2500mV) 1 KΩ	-0.1 mv/ppm	±12 VDC approx. 20 mA	plug

P9 (digital output, digital internal signal processing)

digital-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€			_	DIN EN 61326- compliant	1	
P9.2H-M1-12	0 – 200	0.1		10 mV/ppm	12 VDC	l
P9.2N-M1-12	0 – 2.000	1	Modbus RTU	1 mV/ppm	(+11.5 - +13 VDC ±6 VDC approx. 40 mA	5-pol M12
P9.2L-M1-12	0 - 2 % 0 - 20.000 ppm	0.001 % 10	MOGBOS KTO	0.1 mV/ppm		Flange plug
P9.2H-M1-24	0 – 200	0,1		10 mV/ppm	24 VDC	E mal
P9.2N-M1-24	0 – 2.000	1	Modbus RTU	1 mV/ppm	(+22.5 - +26 VDC ±6 VDC approx. 20 mA	5-pol M12
P9.2L-M1-24	0 - 2 % 0 - 20.000 ppm	0.001 % 10		0.1 mV/ppm		Flange plug



P9 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection	
C€		EMV-Testing DIN EN 61326-1 RoHS compliant					
P9.2MA-CC	0 – 200	0.1		0.08 mA/ppm	10 20 VDC		
P9.2MA-MM	0 – 2.000	1	4 20 mA	0.008 mA/ppm	12 – 30 VDC R _L 50ΩR _L 900Ω	2-pol.	
P9.2MA-2%	0 - 2 % 0 - 20.000 ppm	0.001 % 10	uncalibrated	0.0008 mA/ppm		terminal	

Order Code

Peracetic acid sensor P9								
		Measuring range in ppm		e in ppm	Resolution in ppm	Nominal slope		
	Ν	0	-	2.000	1	-1 mV/ppm		
	L	0		20.000	10	-0.1 mV/ppm		

P9 -	N	(example order)	

P9 –				
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Order Code

Peracetic a	Peracetic acid sensor P9.2										
		Measuri	ng rang	e in ppm	Resolution in ppm	Nominal slope					
	H-A12n	0	-	200	0.1	-10 mV/ppm					
	N-A12n	0	-	2.000	1	-1 mV/ppm					
	L-A12n	0	-	20.000	10	-0.1 mV/ppm					
	H-A24n	0	-	200	0.1	-10 mV/ppm					
	N-A24n	0	-	2.000	1	-1 mV/ppm					
	L-A24n	0	-	20.000	10	-0.1 mV/ppm					
	H-M1-12	0	-	200	0.1	300 mV/ppm					
	N-M1-12	0	-	2.000	1	100 mV/ppm					
	L-M1-12	0	-	20.000	10	10 mV/ppm					
	H-M1-24	0	-	200	0.1	300 mV/ppm					
	N-M1-24	0	-	2.000	1	100 mV/ppm					
	L-M1-24	0	-	20.000	10	10 mV/ppm					
	MA-CC	0	-	200	0.1	0.08 mA/ppm					
	MA-MM	0	-	2.000	1	0.008 mA/ppm					
	MA-2%	0	-	20.000	10	0.0008 mA/ppm					

P9.2 -	MA 2%	(example order)	

PQ 2 _		
r 7.∠ −		



DOSASens peracetic acid sensor P10...

for the measurement of peracetic acid; with tenside-resistant membrane





Technical specifications.						
P10						
Area of the	All types of water treatment. Conductivity acids and tensides are tolerated.					
Area of use	(e.g. bottle washer, CIP plant, rinser)					
Measuring system		, amperometric 2-electrode system				
Electronic	Digital version: mA version:	voltage output; electronic is completely galvanically isolated; digital internal data processing; Output signal: analog or digital current output; not galvanically isolated electronics with poti for (restricted) adjustment of measuring range; signal output: analog (analog-out/analog)				
Indicator	Peracetic acid					
Operating temperature	>5 - <45 °C					
Temperature compensation	automatically, by ar T90: approx. 8 min.	n integrated temperature sensor				
Max. allowed operating pressure	1.0 bar, no pressure impulses and/or vibrations					
Flow rate	approx. 30 – 100 l/h					
pH-range	pH 1 – pH 7					
Run-in time	first start-up approx.	1 h				
Response time	T90: approx. 5 min. a	t 10 °C, approx. 1.5 min. at 50 °C				
Zero point adjustment	Not necessary					
Slope adjustment	At the device, by a	nalytical determination				
Interferences	O3: CIO2: H2O2:	leads to a 2,500-times higher measuring value is measured with 100% no interference				
Influence of conductivity acids	1 % sulfuric acid or 1	% nitric acid or 1% phosphoric acid in the wa- e to the measuring behaviour				
Connection	analog-out/digital: digital-out/digital: 4-20 mA:	5-pol. M12, flange plug 2-pol. terminal(2 x 1 mm²)				
Material	PVC-U, stainless stee					
Dimensions	Diameter: Length:	approx. 25 mm analog-out/digital approx. 195 mm digital-out/digital approx. 205 mm 4-20 mA approx. 220 mm				
Storage	Probe: Membrane cap: Electrolyte:	Can be stored frost-free, dry and without electrolyte for an unlimited time at >5->40°C Used membrane caps cannot be stored! in original bottle and protected from sun light at least 1 year at >5 - <25 °C				
Maintenance	Regular control of the measuring signal: at least once a week Replacement of the membrane cap: once a year (depending on the water quality) Replacement of electrolyte: every 3 - 6 months					



C€	EMV-Testing DIN EN 61326-1 RoHS compliant					
Spare parts	Membrane cap: Electrolyte:	P10H P10N P10-5000 P10L P10MA-MM P10MQ-2"% P10MA-5% EPS9/W	M10H with G-holder M10N with G-holder M10G with G-holder M10G with G-holder M10G with G-holder M10G with G-holder M10G with G-holder			

P10 (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
P10H	0 – 200	0.1	02000 mV 1 kΩ	-10 mV/ppm	±5 - ±15 VDC 5 mA	
P10N	0 – 2.000	1	02000 mV 1 kΩ	-1 mV/ppm	±5 - ±15 VDC 5 mA	4-pol. plug
P10L	0 – 20.000	10	02000 mV 1 kΩ	-0,1 mV/ppm	±5 - ±15 VDC 5 mA	

P10 (analog output/ digital internal signal processing)

analog-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection		
C€				EMV-Testing DIN EN 61326-1 RoHS compliant				
P10H-A12n	0 – 200	0.1		-10 mV/ppm				
P10N-A12n	0 – 2.000	1	analog	-1 mv/ppm	12 VDC			
P10-5000- A12n	0 – 5.000	1	02000 mV (max2500mV)	-0.4 mv/ppm	(11.5 – 13 VDC ±6 VDC approx. 40 mA	4-pol. plug		
P10L-A12n	0 -2 % 0 - 20.000	0,0001% (10ppm)	1 ΚΩ	-1000 mV/% (-0,1 mV/ppm)				
P10H-A24n	0 – 200	0.1		-10 mV/ppm	24 VDC (22.5 – 26 VDC ±12 VDC approx. 20 mA			
P10N-A24n	0 – 2.000	1		-1 mv/ppm				
P10-5000- A24n	0 – 5.000	1	02000 mV	-0.4 mv/ppm		4-pol. plug		
P10L-A24n	0 -2 % 0 - 20.000	0,0001% (10ppm)	(max2500mV) 1 k'Ω	-1000 mV/% (-0.1 mV/ppm)				
P10N-M1-24	0 – 2.000	1		100 mV/ppm	3pp10/1. 20 11//			
P10L-M1-24	0 -2 % 0 - 20.000	0,0001% (10ppm)		10 mV/ppm				



P10 (digital output / digital internal signal processing)

digital-out / digital

- The power supply is galvanically isolated inside of the sensor.
- The output signal is galvanically isolated too, that means potential-free.

Тур	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection	
C€				g DIN EN 61326-1 S compliant			
P10H-M1-12	0 – 200	0.1		300 mV/ppm	12 VDC	5-pol M12	
P10N-M1-12	0 – 2.000	1	Modbus RTU	100 mV/ppm	(+11.5 – +13 VDC		
P10L-M1-12	0 -2 % 0 - 20.000	0.0001% (10ppm)		10 mV/ppm	±6 VDC approx. 40 mA	Flange plug	
P10H-M1-24	0 – 200	0.1		300 mV/ppm	24 VDC	E mal	
P10N-M1-24	0 – 2.000	1	Modbus RTU	100 mV/ppm	(+22.5 – +26 VDC	5-pol M24	
P10L-M1-24	0 -2 % 0 - 20.000	0.0001% (10ppm)		10 mV/ppm	±6 VDC approx. 40 mA	Flange plug	

P10 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection			
C€		EMV-Testing DIN EN 61326-1 RoHS compliant							
P10MA-MM	0 – 2.000	1		0.008 mA/ppm	12 30 VDC				
P10MA-2%	0 – 2 % (20.000)	10	4 20 mA uncalibrated	0.0008 mA/ppm	12 – 30 VDC R _L 50Ω (12V)	2-pol. terminal			
P10MA-5%	0 – 5 % (50.000)	100		0.00032 mA/ppm	R _L 900Ω (30V)				



Order Code

Peracetic acid sensor P10										
		Measuri	ng rang	e in ppm	Resolution in ppm	Nominal slope				
	Н	0	-	200	0.1	-10 mV/ppm				
	Ν	0	-	2.000	1	-1 mV/ppm				
	L	0	-	20.000	10	-0.1 mV/ppm				
	H-A12n	0	-	200	0.1	-10 mV/ppm				
	N-A12n	0	-	2.000	1	-1 mV/ppm				
	L-A12n	0	-	20.000	10	-0.1 mV/ppm				
	H-A24n	0	-	200	0.1	-10 mV/ppm				
	N-A24n	0	-	2.000	1	-1 mV/ppm				
	L-A24n	0	-	20.000	10	-0.1 mV/ppm				
	H-M1-12	0	-	200	0.1	10 mV/ppm				
	N-M1-12	0	-	2.000	1	1 mV/ppm				
	L-M1-12	0	-	20.000	10	0.1 mV/ppm				
	H-M1-24	0	-	200	0.1	10 mV/ppm				
	N-M1-24	0	-	2.000	1	1 mV/ppm				
	L-M1-24	0	-	20.000	10	0.1 mV/ppm				
	MA-MM	0	-	2.000	1	0.008 mA/ppm				
	MA-2%	0	-	20.000	10	0.0008 mA/ppm				
	MA-5%	0	-	50.000	100	0.00032 mA/ppm				

P10 -	MA 2%	(example order)		l
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P10 –			
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DOSASens amperometric sensors

Oxygen sensor Type MFOX for measuring dissolved oxygen in liquid media



General information

The polarographic oxygen probes are of robust construction and stable in the long term. The sensors can be fitted with a choice of temperature probes for automatic temperature compensation.

Measurement principle Diaphragm covered, amperometric-polarographic, two-electrode probe according to Clark

MFOX		39	41
Material		PSU, stainless steel (or titanium) ABS	PSU, stainless steel (or titanium) ABS
Dimensions	Ø mm Installed length mm	Ø 18 mm 120 mm	Ø 12 mm 120 mm
Measurement range	mg/l	0.0 - 60.0 mg/l (15°C)	0.0 - 20.0 mg/l
Air saturation	%	0 - 200	0 - 200
Resolution	mg/l	0.1	0.1
Response time		T ₉₀ < 70 s at 25°C	T ₉₀ < 30 s at 25°C
Flow dependence		< 5 % at 25°C	< 6 % at 25°C
Inflow speed	cm/s	> 9 cm/s	> 9 cm/s
Immersion depth	cm	8 cm	6 cm
Operating temperature	°C	-5 45°C	-5 45°C
Inflow	l/h	30 - 40 l/h	30 - 40 l/h
Max. permissible operating pressure bar		3 bar	1 bar
Process connection with multipolar SMEK PG plug		PG 16	PG 13.5



Order code

Oxygen sensor Type MFOX								
		Operating conditions						
	39	Proc	Process water and wastewater technology					
	41	Drink	Drinking water treatment					
			Connection					
		1	1 5 m fixed lead with open end					
		2						
		3	20 m					
				Temper				
			1	Pt 100 p	platinum measurement resistor			
			2	NTC				
					Titanium ring for measurements in seawater:			
				T	for MFOX 39			
					for MFOX 41			
MFOX	41	1	1		(example order)			
					,			
Your selectio	n							

MFOX			
7111 -71			



DOSASens chlorine sensor AS ...

for the measurement free, inorganic chlorine; open probe



Technical specifications:				
AS				
Area of use	Drinking water cold, warm up to max. 70 °C			
Suitable chlorinating agents	NaOCI (= sodium hypochlorite), Ca(OCI)2, Ca(OCI)2, chlorine gas, electrolytically generated chlorine			
Measuring system	Amperometric potentiostatic 3-electrode system			
Electronic	analog version: voltage output; not galvanically isolated electronics; analog internal data processing; signal output: analog (analog-out/analog) mA version: current output; not galvanically isolated electronics with poti for (restricted) adjustment of measuring range; signal output: analog (analog-out/analog)			
Indicator	Free chlorine			
Operating temperature	AS2: >5 - <50 °C AS3: >5 - <70 °C			
Temperature compensation	Automatically, by an integrated temperature sensor Response time: t90 = approx. 10 min. Max. changes in temperature: 30 °C per hour, quick changes in temperature should be avoided			
Max. allowed operating pressure	8 bar			
Flow rate	approx. 80 l/h			
pH-range	pH 5 – pH 9 Stability of the material: pH 1 – pH 12			
Run-in time	First start-up approx. 1 $h-2$ days, depends on the water quality			
Response time	T90: approx. 30 sec.			
Zero point adjustment	Not necessary			
Slope adjustment	At the device, by analytical determination, DPD-1-method			
Interferences	Ozone, Chlorine dioxide, Chlorite are measured			
Connection	analog-out/analog: 4-pol. screw connector 4-20 mA: 2-pol. terminal (2 x 1 mm²)			
Material	AS2: PVC-U AS3: PEEK, PVDF			
Dimensions	Diameter: approx. 25 mm Length: analog-out/analog approx. 175 mm 4-20 mA approx. 220 mm			
Storage	Probe: filled with electrolyte and and with protection-cap (also filled with electrolyte) 1 year, frost-free OR Frost-free, dry and without electrolyte: Storable for an unlimited time Electrolyte: in the original bottle and protected from sun light storable at least 1 year at >5 - <25 °C			
Maintenance	Regular control of the measuring signal: at least once a week Cleaning of the gold electrodes: every 4 - 12 weeks Replacement of electrolyte: every 3 - 6 months Maintenance at factory: after 1 year operating time			
	Main incliding an includy, and in your obciding in its			



Technical Data:

AS2N- CL (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
AS2N-CL	0.03 – 10.00	0.01	02000 mV 1 kΩ	-100 mV/ppm	±5 - ±15 VDC 10 mA	4-pol. plug

AS2... CL 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€	EMV-Testing DIN EN 61326-1 RoHS compliant					
AS2MA1-CL	0.03 – 1.00	0.01		16.0 mA/ppm		
AS2MA2-CL	0.03 – 2.00	0.01		8.0 mA/ppm	12 – 30 VDC R _L 50Ω…R _L 900Ω	
AS2MA5-CL	0.03 – 5.00	0.01	4 20 mA uncalibrated	3.2 mA/ppm		2-pol. terminal
AS2MA10-CL	0.03 – 10.00	0.01	onealibratea	1.6 mA/ppm		TOTTILITAL
AS2MA20-CL	0.03 – 20.00	0.01		0.8 mA/ppm		

Technical Data:

AS3N- CL (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
AS3H-CL	0.005 – 2.000	0.001	02000 mV	-1000 mV/ppm	±5 - ±15 VDC	4-pol.
AS3N-CL	0.03 – 10.00	0.01	1 ΚΏ	-100 mV/ppm	10 mA	plug



AS3... CL 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
C€			_	DIN EN 61326-1 compliant		
AS3MA1-CL	0.03 – 1.00	0.01		16.0 mA/ppm		
AS3MA2-CL	0.03 – 2.00	0.01	4 00 4	8.0 mA/ppm	12 – 30 VDC R _L 50Ω…R _L 900Ω	
AS3MA5-CL	0.03 – 5.00	0.01	4 20 mA uncalibrated	3.2 mA/ppm		2-pol. terminal
AS3MA10-CL	0.03 – 10.00	0.01	or icalibrated	1.6 mA/ppm		101111111111
AS3MA20-CL	0.03 – 20.00	0.01		0.8 mA/ppm		

Order Code

Chlorine ser	Chlorine sensor AS2										
		Measuring range in ppm		nge in ppm	Resolution in ppm	Nominal slope					
	Ν	0.03	-	20.00	0.01	-100 mV/ppm					
	MA1	0.03	-	1.00	0.01	16.0 mA/ppm					
	MA2	0.03	-	2.00	0.01	8.0 mA/ppm					
	MA5	0.03	-	5.00	0.01	3.20 mA/ppm					
	MA10	0.03	-	10.00	0.01	1.6 mA/ppm					
	MA20	0.03	-	20.00	0.01	0.8 mA/ppm					

AS2 -	2 (example order)	
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Your selection:

A CO		
$\Delta \nabla \mathcal{I} =$		
AJZ -		

Order Code

Chlorine sensor AS3									
		Measu	ring ro	inge in ppm	Resolution in ppm	Nominal slope			
	Н	0.005	-	2.000	0.001	-1000 mV/ppm			
	Ν	0.03	-	20.00	0.01	-100 mV/ppm			
	MA1	0.03	-	1.00	0.01	16.0 mA/ppm			
	MA2	0.03	-	2.00	0.01	8.0 mA/ppm			
	MA5	0.03	-	5.00	0.01	3.20 mA/ppm			
	MA10	0.03	-	10.00	0.01	1.6 mA/ppm			
	MA20	0.03	-	20.00	0.01	0.8 mA/ppm			

AS3 - MA 2 (example order)

Your selection:

AS3 -	



DOSASens chlorine-dioxide sensor AS ...

For the measurement of chlorine dioxide; open probe

Technical specifications:



AC					
AS	D 1.11.				
Area of use	Drinking water cold, warm up to m	nax. 70 °C			
Chlorine dioxide agents	Chlorite/Chlorine, C	Chlorite / Acid, Chlorite /Pe	roxo		
Measuring system	Amperometric potentiostatic 3-electrode system				
Electronic	analog version : mA version :	voltage output; not gelectronics; analog interprocessing; signal output: analog (analog-out/ar current output; not galvanically isolated elefor (restricted) adjustmerange; signal output: analog (analog-out/analog)	nalog) ectronics with potient of measuring		
Indicator	Chlorine dioxide				
Operating temperature	AS2: >5 - <50 °C AS3: >5 - <70 °C				
Temperature compensation	Response time: t90	mperature: 30 °C per hour			
Max. allowed operating pressure	8 bar				
Flow rate	approx. 80 l/h				
pH-range	pH 5 – pH 9 Stability of the mate	erial: pH 1 – pH 12			
Run-in time	First start-up approx	a. 1 h – 2 days, depends on	the water quality		
Response time	T90: approx. 30 sec.	•			
Zero point adjustment	Not necessary				
Slope adjustment	At the device, by on DPD-1-method	analytical determination , (without chlorine)		
Interferences		re measured with less than			
Connection	analog-out/analog 4-20 mA:	: 4-pol. screw connect 2-pol. Terminal (2 x 1 ı			
Material	AS2: PVC-U AS3: PEEK, PVDF				
Dimensions	Diameter: Length:	analog-out/analog 4-20 mA	approx. 25 mm approx. 175 mm approx. 220 mm		
Storage	Probe: Electrolyte:	filled with electrolyte and protection-cap (also filled 1 year, frost-free OR Frost-free, dry and without Storable for an unlimited the in the original bottle and light storable at least 1 years.	with electrolyte) t electrolyte: ime protected from sun		
Maintenance	light storable at least 1 year at >5 - <25 °C Regular control of the measuring signal: at least once a week Cleaning of the gold electrodes: every 4 - 12 weeks Replacement of electrolyte: every 3 - 6 months Maintenance at factory: after 1 year operating time				
Spare parts	Electrolyte:	EAS1/Gel			



Technical Data:

AS2N-CD (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
AS2H-CD	0.005 - 2.000	0.001	02000 mV	-1000 mV/ppm	±5 - ±15 VDC	4-pol.
AS2N-CD	0.03 – 10.00	0.01	1 ΚΏ	-100 mV/ppm	10 mA	plug

AS2... CD 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection	
C€		EMV-Testing DIN EN 61326-1 RoHS compliant					
AS2MA1-CD	0.03 – 1.00	0.01		16.0 mA/ppm			
AS2MA2-CD	0.03 – 2.00	0.01	4 20 mA uncalibrated	8.0 mA/ppm	12 – 30 VDC R ₁ 50Ω…R ₁ 900Ω	2-pol. terminal	
AS2MA5-CD	0.03 – 5.00	0.01	on canbratea	3.2 mA/ppm	N. 0032NL 70032	10111111111111	

Technical Data:

AS3...-CD (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection
AS3H-CD	0.005 – 2.000	0.001	02000 mV	-1000 mV/ppm	±5 - ±15 VDC	4-pol.
AS3N-CD	0.03 – 10.00	0.01	1 ΚΏ	-100 mV/ppm	10 mA	plug



AS3... CD 4-20 mA (analog output, analog internal signal processing)

analog-out / analog

A potential-free electrical connection is required because the electronics do not have galvanic isolation.

Туре	Measuring range in ppm	Resolution in ppm	Output Output- resistance	Nominal slope	Power supply	Connection	
C€		EMV-Testing DIN EN 61326-1 RoHS compliant					
AS3MA1-CD	0.03 – 1.00	0.01	4 00 4	16.0 mA/ppm	10 00 1/00		
AS2MA2-CD	0.03 – 2.00	0.01	4 20 mA uncalibrated	8.0 mA/ppm	12 – 30 VDC Rι 50ΩRι 900Ω	2-pol. terminal	
AS3MA5-CD	0.03 - 5.00	0.01	oricalibratea	3.2 mA/ppm	KE 3032KE 70032	ICITIIII	

Order Code

Chlorine	Chlorine dioxide sensor AS2							
		Measuring range in ppm			Resolution in ppm	Nominal slope		
	Н	0.005	_	2.000	0.001	-1000 mV/ppm		
	N	0.03	-	10.00	0.01	-100 mV/ppm		
	MA1	0.03	-	1.00	0.01	16.0 mA/ppm		
	MA2	0.03	-	2.00	0.01	8.0 mA/ppm		
	MA5	0.03	-	5.00	0.01	3.20 mA/ppm		

AS2 -	MA 1	(example order)	
A3Z -	7417-1	(example order)	

Your selection:

Order Code

Chlorine dioxide sensor AS3							
		Measuring range in ppm			Resolution in ppm	Nominal slope	
	Н	0.005	-	2.000	0.001	-1000 mV/ppm	
	Ν	0.03	-	10.00	0.01	-100 mV/ppm	
	MA1	0.03	-	1.00	0.01	16.0 mA/ppm	
	MA2	0.03	-	2.00	0.01	8.0 mA/ppm	
	MA5	0.03	-	5.00	0.01	3.20 mA/ppm	

AS3 -	MA 1	(example order)	
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Your selection:

AS3 -		
730		



DOSASens KC potentiostatic sensors

for recording free, inorganic chlorine, chlorine dioxide and ozone; open probe



Technical specifications

KC	
Measurement principle	Potentiostatic two-electrode measurement system, double-gold single rod probe
Area of use	Drinking, service and process water. Legionella control
Suitable chlorinating agents	Sodium hypochlorite (NaOCI), Calcium hypochlorite (Ca(OCI) ₂), chlorine gas, electrolytically generated chlorine, chlorine dioxide
Measurement range	0.01 – 20.00 ppm, free inorganic chlorine 0.01 – 4.00 ppm, chlorine dioxide, ozone
Operating temperature	5 - 70°C
Max. permissible operating pressure	6 bar
pH - range	pH 5.0 - 9.0
min. inflow	30 - 40 l/h
Material	Glass body with gold electrodes
Cable connection	5-pole screw plug
Process connection	PG 13.5 – thread
Dimensions	Diameter approx: 12 mm Length approx: 120 mm
Measurement unit/controller	DOSAControl DC 96-CL, CLD and O3 DOSAControl DCW 100-CL, CLD and O3 DOSAControl DCW 300-CL, CLD and O3
Special feature	When used with DOSAControl DC96, DCW 100 and DCW 300, the sensor can be fitted with a fully automated, electrochemically operating sensor cleaning device (ASC)

Order code

Sensor KC.						
		Measurement par	rameters	Measurement range	Resolution	
	L	Free chlorine,	0.01 2.00 ppm	0.01 ppm		
	LD	Chlorine dioxide,	0.01 4.00 ppm	0.01 ppm		
	OZ	Ozone,	0.01 4.00 ppm	0.01 ppm		

KC	LD	(example order)	

Your selection

KC.		



DOSASens DFDS20... open amperometric probe Integrated in DOSAFlow made from high quality acrylic (PMMA)



General information

- open chlorine probe, for measurement of inorganic chlorine
- For holding electrodes:
 - pH, redox (ORP), oxygen, temperature, ...
- High quality made of Perspex (PMMA)
- The flow geometry has been optimised for the above sensors
- Needle valve and floating body for adjusting and displaying the current flow rate
- Inductive proximity switch for monitoring flow rate (optional)

Technical specifications

rectifical specifications				
DFDS20				
Measurement principle	Open probe; amperometric, potentiostatic three-electrode measurement system with integrated electronics			
Area of use:	Swimming pool wate	er.		
Suitable chlorinating agents	Sodium hypochlorite (NaOCI), Calcium hypochlorite (Ca(OCI) ₂), electrolytically generated chlorine, also measures bromine, fluorine and iodine			
Measurement range	0 – 10 ppm			
Operating temperature	5 – 60°C			
Max. permissible operating pressure	3.0 bar			
pH – range	pH 6 – pH 8,			
min. in flow	Ca. 40L/h			
Electrodes	Platinum / copper			
Electrodes	Platinum / silver (with brine water)			
Cable connection	2-pole 1.5 m			
Material:	Acrylic and PVDF			
Sensitivity to dirt	Low, due to self-clea	aning		
	DFDS balls	Glass balls		
Service parts	Pt/Cu DFDS	Platinum / copper electrode		
	Pt/Ag DFDS	Platinum / silver electrode		



Order co	de						
Series DC	SASe	ns DFDS2	0-				
		Equipm	ent	Connection	S		
	6	2 electr	rodes	2 x plug elec	ctrodes	(Platinum / Copper)	
	7	2 electr	rodes	2 x PG 13.5		(Platinum / Copper)	
	12	2 electr	odes	2 x PG 13.5	*Salt water	(Platinum / Silver)	
			Flow mo	nitor			
		Α	without				
		P1	with ind	proximity switch Typ	oe NPN (N.C.), 2 r	m fixed lead	
		P2	with ind	proximity switch Typ	oe SEPR (N.O.), 2 i	m fixed lead	
DFDS20	7	Α	(exampl	e order)			
Your sele	ction						
DFDS20							
		•	•				
Order co	de						
Series DC	SASe	ns DFDS2	0 - acces	sories			
	1 1	DFDS hall	ıs G	ass halls			

Older co	del code								
Series DC	Series DOSASens DFDS20 - accessories								
	DFDS balls	Glass balls							
	Pt/Cu DFDS	Platinum / copper electrode							
	Pt/Ag DFDS	Platinum / silver electrode							
DFDS20	DFDS balls	(example order)							

Your selection

DFDS20		



DOSASens sensor cable

Sensor cable with 4-pole screw plug



Order code

Sensor cable Typ	Sensor cable Type AK CL					
		Cable lengt	ble length			
	0.5	m				
	1	m				
	2	m				
	3	m	n			
	5	m				
	10	m				
	15	m				
			Connection			
		AG/O	Plug AG/open end			
		AG/AG	Plug AG/AG			

	_			
AK CL	1	AG/O	(example order)	

Your selection

10010010011						
AK CL						

Sensor cable with screw plug DOSASens KC



Order code

Sensor cable Type AK-S for DOSASens – sensors					
		Signal	transfer		
	5	for sen	or sensors of Type KCL, KCLD, or KCOZ		
Cable length		Cable length			
5 M					

AK S	5-	5	(example order)	

Your selection

1001 3010 011011						
AK S						



Membrane caps for DOSASens amperometric sensors

Amperometric sensors should be regularly serviced to maintain their operational reliability and sensitivity. The tables show the service components required for servicing the sensors.









M48.1 with G holder

Order code

Diaphragm			
	Sensor type Ab	orasive paper Type	
M20	Chlorine sensor CL 4.1 Chlorine dioxide sensor CD 4 Ozone sensor OZ 1	\$1	
M48.1	Chlorine sensor CS 2.3, CP 2.1 (not CP 2.1HUn), CC 1	\$1	
M48.1G	Chlorine sensor CS 2.3, incl. G holder	\$1	
M48.1D	Chlorine sensor CP 2.1HUn, incl. pressure compensation diapl	hragm \$1	
M7D	Hydrogen peroxide sensor WP 7 MA XM	\$2	
M7D O3	Ozone sensor OZ 7 (not OZ 7 H and OZ 7 MA 05)	\$2	
M7N O3	Ozone sensor OZ 7 H and OZ 7 MA 05	\$2	
M7N	Chlorine dioxide sensor CD 7 Hydrogen peroxide sensor WP 7 (not for WP 7 MA XM and WP 7 MA CM) Per-acetic acid sensor PES 7 (not PES 7 L)	\$2	
M7L	Hydrogen peroxide sensor WP 7 MA CM Per-acetic acid sensor PES 7-L	\$2	
M90L	Per-acetic acid sensor Pes MZ9	\$2	
G holder	Chlorine sensor CS 2.3		
M20	(example order)		

*Scope of supply:	Diaphraam cap	with abrasive paper
000000.0000.71	2.0.0.1.0.90.10	· · · · · · · · · · · · · · · · · · ·



Spare electrolyte for DOSASens amperometric sensors



Order Code

Order Code			
Elektrolyt (in p	plastic wash bottle)		
	Sensor type	Contents	
EAS 1/G	Chlorine sensor AS 2, AS 3, Gel	50 ml	
ECL 1/W	Chlorine sensor CL 4.1	100 ml	
ECL 2.1/W	Chlorine sensor CL 2.1	100 ml	
ECS 2.1/G	Chlorine sensor CS 2.3, Gel	100 ml	
ECP 1.3/G	Chlorine sensor CP 2.1, Gel	100 ml	
ECP2S/G	Chlorine sensor CP 2.1, Gel (Brine water)	100 ml	
ECC 1/G	Chlorine sensor CC 1	100 ml	
ECC 1S/G	Chlorine sensor CC 1 (Brine water)	100 ml	
ECD 4/W	Chlorine dioxide sensor CD 4	100 ml	
ECD 7/W	Chlorine dioxide sensor CD 7	100 ml	
EOZ 1/W	Ozone sensor OZ 1	100 ml	
EOZ 7/W	Ozone sensor OZ 7	100 ml	
EWP 7/W	Hydrogen peroxide sensor WP 7	100 ml	
EPS 7/W	Per-acetic acid sensor PES 7 (not EPS 7-L) and P 9	100 ml	
EPS 7L/W	Per-acetic acid sensor PES 7-L	100 ml	
ECL 1	(Example order)		



Flow cell Type DOSAFlow DF 01 LC

Made of high-quality acrylic (PMMA)



General information

- For electrochemical electrodes with a screw connection in PG13.5, e.g. for: pH, redox (ORP), oxygen, temperature, or sensors with a barrel diameter of 25 mm (1 1/4"), e.g. for:
 - DOSASens sensors
- Very high quality; made of Perspex (PMMA)
- The flow geometry has been optimised for the above
- With floating ball and PVC ball valve for adjusting the optimum flow rate
- Discharge right and left
- 1 50°C at 6 bar Operating temperature:
- Max. operating pressure: 8 bar

Order code

Series DOSAFlow	DF 01LC					
		Temp	eratu	re	Max. operating pressure	
	С	Cold	wate	r up to 5	0°C 6 bar	
	Н	Hot w	ater	up to 75	°C 6 bar	
			Wa	ll-mount	ing plate made of PVC, white:	
		Α	with	nout		
		М	with	า		
			Assem			
			0 1 1/4" for sensors with d = 25 mm		r sensors with d = 25 mm	
			1	PG13.5		
					Hose connection kit	
				0	without	
				KC	for cold water up to 50°C	
				KH	for hot water up to 70°C	

DF 01LC -	С	Α	0	KC	(example order)	
Voursoloction						

Tour selection			
DF 01LC -			

^{*}The sensor in the picture is not included in the price!



Flow cells Type DOSAFlow DF made of high-quality acrylic (PMMA)







DOSAFlow DF 20C



General information

- For electrochemical electrodes with a screw connection in PG13,5, e.g. for:
 - pH, redox (ORP), oxygen, temperature, ... or sensors with a barrel diameter of 25 mm (1 ¼"), e.g. for:

DOSASens amperometric sensors

- Very high quality made of Perspex (PMMA)
- The flow geometry has been optimised for the above sensors
- Floating ball flow meter and needle valve for adjusting and displaying the current flow rate
- Inductive proximity switch for monitoring flow rate (optional)
- With sampling tap and equipotential bonding pin
- Operating temperatures:
 - Hot water version: 80°C at 8 bar

(Type DF ...H)

Max. operating pressure: 8 bar at 25°C

• Accessories (optional): hose connection kit with 2 shutoff ball valves, 2 hose connectors 1/2" and 2 x 2 m in each case connection hose.

Order code

DOSA	Flow	DF				
	Equi	pment			Connections	
01	1 Se	nsor			1 x 1 1/4"	
20	2 Ele	ectrode	es		2 x PG13,5	
21	2 Ele	ectrode	es, 1 se	nsor	2 x PG13,5, 1 x 1 1/4"	
32	3 El∈	ectrodes, 2 sensors		nsors	3 x PG13,5, 2 x 1 1/4"	
		Temp	erature	е	Max. operating pressure	
	Н	Hot v	vater u	p to 80°	PC 8 bar	
		Flow monitor				
	A without		ut			
		P1	with ir	nd. prox	simity switch Type NPN (N.C.), 2 m fixed lead	
		P2	with ir	nd. prox	simity switch Type SEPR (N.O.), 2 m fixed lead	
				Hose c	onnection kit	
			0	None		
			KC	for cold	d water up to 50°C	
			KH	for hot	water up to 80°C	

DF	21	С	P2	0	(example order)	

Your selection

10013	0100110			
DF				

^{*}The sensor in the picture is not included in the price!



Flow cell Type NPED made of Noryl plastic



General information

- For electrodes with a connection thread in PG13.5 or with an electrode barrel diameter of 12 mm: pH, redox (ORP), oxygen, temperature,
- Material:
 - Flow cell head: Polypropylene (PP)
 - Flow cell cup: Noryl, transparent
- The flow-cell cup can be unscrewed to ease cleaning and maintenance of the electrodes
- The inflow of the electrodes optimised
- 2 versions with integrated flow monitor
- With sampling tap and equipotential bonding pin
- Max. operating pressure:

- Version PG13.5: max. 6 bar- Clamp version: max. 2 bar

- Maximum operating temperature: 50°C
- Scope of supply:

Flow cell with mounting bracket, ball valve for flow control, 2 hose connectors ½" x 6/8 mm and PE hose

Order code

Series NPED				
		Equipment	Connections	
	1	2 electrodes	2 x PG13,5	
	2	2 electrodes	2 x Ø 12 mm clamp version	
	1-3	3 electrodes	3 x PG13.5	
	2-3	3 electrodes	3 x Ø 12 mm clamp version	
	4-1	2 electrodes	2 x PG13.5, with FC NO*	
	4-2	2 electrodes	2 x Ø 12 mm clamp version with FC NO*	
	4/2F-1	2 electrodes	2 x PG13.5, with FC NC*	
	4/2F-2	2 electrodes	2 x Ø 12 mm clamp version with FC NC*	

NPED 4-1 (example order)

Your selection

10013010011	1001 3010011011										
NPED											

*FC NO = Flow monitor with switch Normally Open

^{**}FC NC = Flow monitor with switch Normally Closed



Flow cell Type DAS made of PVC





General information

 For electrodes with a connection thread in PG13.5 and an electrode length of 120 mm, e.g. for: pH, redox (ORP), oxygen, conductivity (conductive glass electrode), temperature, DOSASens KC

Maximum operating temperature:

- PVC: 1 ... 45°C at 6 bar - PP: 1 ... 70°C at 6 bar

Max. operating pressure: 6.0 bar

The flow cells can be mounted in full flow using the screwed connections with PVC glue sockets.

Order code

Oraci coac							
Series DAS							
	Version	1					
DAS 1	1						
DAS1 KC	1-KC						
		Connection	PVC	pipe diame	eter		
	25	DN 25		32 mm			
	32	DN 32		40 mm	DAS-1 only		
	40	DN 40		50 mm	DAS-1 only		
			Version	1			
		PVC	for cold	d water at 4	45°C		
		PP	for hot	water at 70	0°C		
				Seals			
			V	FPM (Vitor	n®)		
			Е	EPDM			

DAS 1KC	40	PVC	V	(example order)	
Your selection					

1001 3010011011							
DAS 1KC							

Viton® is a registered trademark of DuPont Dow Elastomers



Immersion housings Type ETA

made of PP plastic for installation in open tanks and channels



General information

- For electrochemical electrodes with a connection thread in PG13.5 and an electrode length of 120 mm, e.g. for:
 - pH, redox (ORP), oxygen, conductivity (conductive glass electrodes), temperature
- Choice of 2 types:
 - ETA 1, diameter 40 mm for 1 electrode
 - ETA 3, diameter 63 mm for 3 electrodes
- Material: Polypropylene (PP)
- Max. permissible temperature range: 0 80° C
- Cable entry, protection class IP 65
- Scope of delivery includes:
 - 2 pipe clips for wall mounting
 - 1 PG13.5 stopper for ETA 3

Order code

Series ETA							
		Equip	ment				
	1			PG13.5			
	3	3 ele	ctrode	s PG13.5			
			Imme	ersion de	pth	for ETA 1:	for ETA 3:
		5	500 n	nm			
		8	800 n	nm			
		10	1.000	mm			
		13	1.300	mm			
		15	1.500	mm			
		20	2.000	2.000 mm			
		XX	Custo	Customer-specific length			
				Mountii	ng flange for installing in tanks		
			0	None			
			32	ND 32 f			
			50		or ETA 1 or ETA 3		
			65		or ETA 3		
			XX	Custon	ner-specific size		
					Accessories		
				Α	None		
				N1	Wet holding cup for ETA 1		
				N2	Wet holding cup for ETA 3		
				S	Electrode spray cleaning		
					1		
FTΔ	3	10	65	N2	(example order)		

Your selecti	Your selection								
ETA									



Accessories for immersion housings Type ETA



Mounting flange

for installing the immersion housing in the tank from above. With 2 tommy screws for variable immersion depth.

- Different flange sizes available:
 - DN 32 for ETA 1
 - DN 50 for ETA 1 and ETA 3
 - DN 65 for ETA 3
 - Customer-specific size
- Material: Polypropylene (PP)



Wet holding cup Type N1 and N2

To protect the measurement electrodes from drying-out when the level of the liquid to be measured is below the immersion fitting for a long time.

- Material: Polypropylene (PP)
- Max. permissible temperature range: 0 ... 80° C



Electrode spray cleaning Type S

For cleaning measurement electrodes.

- Material: Polypropylene (PP)
- Max. permissible temperature range: 0 ... 80° C
- Max. permissible operating pressure: 4 bar

Operation

A spray crown with spray nozzles is mounted on the electrode guard cage. The spray nozzles periodically rinse the measurement electrodes with water and/or cleaning solution.



Process changeover probe holder Type PA



General information

- For the holding of pH and redox electrodes with PG
 13.5-connection thread and electrode length 120 mm
- Easy to install and remove the electrodes under process conditions
- Electrodes cleaned and calibrated without interrupting the process
- Material: Polypropylene (PP) or polyvinyliden fluoride (PVDF)
- Max. permissible operating temperature:

- PP: 70°C - PVDF: 120°C

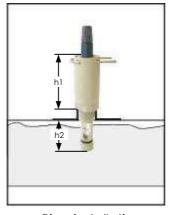
Max. permissible operating pressure:

- PP: 5 bar at 50°C - PVDF: 5 bar at 100°C

Other technical data

- Diameter: 40 mm
- Height h1: 80 mm
- Immersion depth h2: 43 mm
- Connection thread: thread 3/4"

Type PA process changeover valves are typically installed in pipes and tanks.



Pipe installation



Tank installation

Order code

PA

Series PA		
	Material	
	PP	
	PVDF	

PA	PVDF	(example order)	
Your selection			



Prefilter Type NFIL Made of Noryl plastic



General information

- Material:
 - Flow cell head: Polypropylene (PP)
 - Flow cell cup: Noryl, transparent
- The fitting cup can be unscrewed for ease of cleaning and maintenance of the filter
- Max. operating pressure: 6 bar
 Maximum operating temperature: 45°C
- Scope of supply:

Fitting with mounting bracket, ball valve for flow control, 2 hose connectors ½" x 6/8 mm and 4 m PE hose

NFILS for direct connection to flow cell NPED

Order code

Series NFIL					
			Filter size	Attachment to NPED	
	/60	60 washable made of PET	60 µ	no	
	\$/60	60 washable made of PET	60 µ	yes	
	/100	100 PP wound	100 μ	no	
	S/100	100 PP wound	100 μ	yes	

NFIL S/100	(example order)	
------------	-----------------	--

Your selection

NFIL		

Order code

Spare filter o	cartridge f	or NFIL		
			Filter size	
	60	60 washable made of PET	60 μ	
	100	100 PP wound	100 μ	

NCA 100 (example order)

Your selection

1001 3010011011						
	NCA					



| Dosing technology



3. Dosing technology DOSATec

3.1	Solenoid diaphragm dosing pumps
3.1	Selection table for solenoid diaphragm dosing pumps
3.1	Series V
3.1	Series VA
3.1	Series VMS
3.1	Series VMSA
3.1	Series K
3.1	Series KA
3.1	Series KMS
3.1	Series KMSA
3.1	Series T
3.1	Series TA
3.1	Series TMS
3.1	Series TMSA
3.1	Series GMS Polymer
3.1	Series GMSDigital Polymer
3.1	Series AMS
3.1	Series AMSA
3.1	Series AMSDigital
3.1	Series AMSADigital
3.1	Series CMS Polymer
3.1	Series CMSDigital Polymer
3.2	Peristaltic Pumps
3.2	Series DOSAFlex
3.2	Series VPESR
3.3	Motorised diaphragm dosing pumps
0.0	
3.3	Series FM-50
3.3	Series D-50
3.3	Series D-100
3.3	Series D-101
3.3	Series D-121
3.3	Series PRIUS
3.4	Proportional doser unit
0.4	
3.4	Proportional doser series D 3
3.4	Proportional doser series D 25
J. 1	1. 10ps. 113.131 30301 301103 D 20
3.5	Dry-material metering units
3.5	Dry material metering unit TG-DOS



3.6	Metering station DOSADos
3.6	Information for Metering station DOSADos
3.6	Metering station DOSADos 60
3.6	Metering station DOSADos 100
3.6	Metering station DOSADos 200
3.6	Metering station DOSADos 250
3.6	Metering station DOSADos 500
3.6	Metering station DOSADos 1000
0.0	Moroling station 2007 200
3.7	Accessories for Metering pumps
3.7	Injection valve IVN
3.7	Injection lance LIN
3.7	Foot valve FVAxial
3.7	Suction lance SL1
3.7	Suction lance SL2
3.7	Suction lance SL 1-2
3.7	Multi-purpose valve MF
3.7	Flow sensor SEFL
3.7	Pulsation damper SOIM
3.7	Pressure rentention and pressure relief valves
3.7	Valve block Type AB
3.7	Feed tank Series DB-A
3.7	Feed tank Series DB-C
3.7	Feed tank Series DB-E
3.7	Collection tank Series SBO
3.7	Accessories for feed tank DB
3.7	Standard-Agitator DOSAMix
	-
3.7	Wall holders / mounting brackets
3.8	Water meter
3.8	Impeller - contact water meter
3.8	Woltmann - contact water meter
3.9	Static line mixer
3.9	Static line mixer type SRMK made of plastic
3.9	Static line mixer type SRME mode of stainless steel
3.9	Static line mixer type FSHM made of plastic
3.10	Spare parts for solenoid diaphragm dosing pumps
3.10	spare pairs for soleriola diaphilagin dosing pumps
3.10	Selection table pump heads
3.10	Pump heads
3.10	Suction and pressure valve kits for Solenoid diaphragm dosing pump with self-venting
3.10	Suction and pressure valve kits for Solenoid diaphragm dosing pump
3.10	Diaphraams



3.11 Spare parts for motorized diaphragm dosing pumps

3.11	Diaphragm for DOSAMac
3.11	Pump head for DOSAMac
3.11	Diaphragm retainer for DOSAMac
3.11	Distance pieces for DOSAMac
3.11	Suction and pressure valve set for DOSAMac



Selection-Guide for Solenoid Diaphragm Dosing pumps

Preselect within the table for the desired capacity rated in liters/hour (I/h), pressure in bar (bar) and then for the desired installation (socket (S) / wall (W)) and type of control (analogue (A) / digital (D)).

l/h	bar	S	W	Α	D	Series
0.5	20	•		•		KA
	20	•			•	KMSA
l/h	bar	S	W	Α	D	Series
1	3	•		•		K
	3	•			•	KMS
	5	•		•		K
	5	•			•	KMS
	6		•	•		GP
	6		•		•	GMSDP
	15		•	•		VA
	15		•		•	VMSA
	18	•		•		KA
	18	•			•	KMSA
	20		•	•		٧
	20		•		•	VMS
	20	•		•		K
	20	•			•	KMS
l/h	bar	S	W	Α	D	Series
2	8	•		•		CMSP
	8	•			•	CMSDP
	10		•	•		VA
	10		•		•	VMSA
	18		•	•		٧
	18		•		•	VMS
	18		•	•		VA
	18		•		•	VMSA
	18	•		•		K
	18	•			•	KMS
3	4		•	•		GP
	4		•		•	GMSDP
	15		•	•		VA
	15		•		•	VMSA
	15	•		•		KA
	15	•			•	KMSA
l/h	bar	S	W	Α	D	Series
3.2	20		•	•		TA
	20		•		•	TMSA
3.2	25	•		•		AMSA
	25	•			•	AMSAD

l/h	bar	S	W	Α	D	Series
3.4	10		•	•		VA
	10		•		•	VMSA
l/h	bar	S	W	Α	D	Series
3.5	10	•		•		KA
	10	•			•	KMSA
l/h	bar	S	W	Α	D	Serie
4	6	•		•		CMSP
	6	•			•	CMSDP
	7		•	•		VA
	7		•		•	VMSA
	10		•	•		٧
	10		•		•	VMS
	15	•		•		K
	15	•			•	KMS
	15		•	•		٧
	15		•		•	VMS
	18		•			٧
	18		•		•	VMS
l/h	bar	S	W	Α	D	Series
5	10		•	•		٧
	10		•		•	VMS
	10	•		•		K
	10	•			•	KMS
	15		•	•		٧
	15		•		•	VMS
	20		•	•		T
	20		•		•	TMS
	25	•		•		AMS
	25	•			•	AMSD
l/h	bar	S	W	Α	D	Series
5.5	4		•	•		VA
	4		•		•	VMSA
	8	•		•		KA
	8	•			•	KMSA
l/h	bar	S	W	Α	D	Series
6	7		•	•		V
	7		•		•	VMS
	15	•		•		AMSA
	15	•			•	AMSAD
					_	

DOSATRONIC MANAGEMENT IN WATER

l/h	bar	S	W	Α	D	Series
7	3	3				VA
/	3		•	•		VMSA
			•	_	•	VMSA
	10		•	•		
1.0	10		•		•	VMSA
l/h	bar	S	W	Α	D	Series
7.5	5	•		•		KA
	5	•			•	KMSA
	5		•	•		VA
	5		•		•	VMSA
l/h	bar	S	W	Α	D	Series
8	2		•	•		GP
	2		•		•	GMSDP
	4		•	•		V
	4		•		•	VMS
	8	•		•		K
	8	•			•	KMS
l/h	bar	S	W	Α	D	Series
9	5		•	•		VA
	5		•		•	VMSA
l/h	bar	S	W	Α	D	Series
10	3		•	•		٧
	3		•		•	VMS
	4	•		•		CMSP
	4	•			•	CMSDP
	5		•	•		TA
	5		•		•	TMSA
	5		•	•		V
	5		•		•	VMS
	5	•		•		K
	5	•			•	KMS
	10		•	•		V
	10		•	_	•	VMS
	15	_				AMS
		•		•		
1/6	15	•	\A/	Α	• 6	AMSD
l/h	bar	S	W	Α	D	Series
12	5		•	•		V
	5		•	_	•	VMS
l/h	bar	S	W	Α	D	Series
13	2		•	•		VA
	2		•		•	VMSA
	2	•		•		KA
	2	•			•	KMSA
	4		•	•		TA
	4		•		•	TMS
	7	•		•		AMSA
	7	•			•	AMSAD

			***		_	
l/h	bar	S	W	Α	D	Series
13,5	1		•	•		VA
	1		•		•	VMSA
l/h	bar	S	W	Α	D	Series
15	5		•	•		T
	5		•		•	TMS
l/h	bar	S	W	Α	D	Series
16	1		•	•		V
	1		•		•	VMS
l/h	bar	S	W	Α	D	Series
17	2		•	•		V
	2		•		•	VMS
l/h	bar	S	W	Α	D	Series
18	2	•		•		K
	2	•			•	KMS
l/h	bar	S	W	Α	D	Series
20	1		•	•		GP
	1		•		•	GMSDP
	3		•	•		TA
	3		•		•	TMSA
	4		•	•		T
	4		•		•	TMS
	7	•		•		AMS
	7	•			•	AMSD
l/h	bar	S	W	Α	D	Series
25	0,5		•	•		GP
	0,5		•		•	GMSDP
	2	•		•		CMSP
	2	•			•	CMSDP
l/h	bar	S	W	Α	D	Series
30	3					T
	3		•		•	TMS
	3	•		•		AMSA
	3	•			•	AMSAD
l/h	bar	S	W	Α	D	Series
35	1			•		TA
	1				•	TMSA
l/h	bar	S	W	Α	D	Series
38.5	2	•		•		AMSA
	2	•			•	AMSAD
l/h	bar	S	W	Α	D	Series
40	1	•		•		CMSP
70	1	•		 	•	CMSDP
	3	•		•	+	AMS
	3					AMSD
	J	•	<u> </u>		•	MINIOD



l/h	bar	S	W	Α	D	Serie	
50	1		•	•		T	
	1		•		•	TMS	
l/h	bar	S	W	Α	D	Serie	
60	2	•		•		AMS	
	2	•			•	AMSD	
l/h	bar	S	W	Α	D	Serie	
100	0		•	•		T	
	0		•		•	TMS	



Solenoid diaphragm dosing pump series V

Capacity range 1 ... 17 l/h



General information

Capacity range: 1 ... 17 l/h, Pressure range: 20 ... 1 bar

Pump head made of PVDF

Pumps available in different standard colours. Special colours available on request.

Technical specifications

Model	V CO	V CL	V IS
Dosing system	constant	constant	constant / proportional
Stroke frequency adjust- ment	0 100 %	0 100 %	0 100 %
Stroke length adjustment	-	-	-
Level control	-	•	•
Digital signals	-	-	•
Current signal 0/4mA = 0 pulses 20mA = max. pulses	-	-	-
Pulse division	1:10	1:10	1:10
Pulse multiplication	-	-	-
Additional alarm relays	-	• (optional)-	• (optional)



Technical specifications

Series V		1/20	2/15	2/18	4/10	4/15	4/18	5/10	5/15
Dosing capacity	I/h / bar	1 / 20	2/15	2 / 18	4 / 10	4 /15	4 / 18	5 / 10	5 /15
Stroke volume	ml/Hub	0.09	0.19	0.19	0.37	0.37	0.37	0.46	0.46
Stroke frequency	1/min				18	30			
PE hose	mm	4 x 8	4 x 6	4 x 8	4 x 6	4 x 6	4 x 8	4 x 6	4 x 6
PVDF hose	mm	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6
Pump head / Valve size	Туре	J 3/8"	K 3/8"						
Dispatch weight	kg				2	.2	·		

Technical specifications

Series V		6/7	8/4	10/3	10/5	10/10	12/5	16/1	17/2		
Dosing capacity	I/h / bar	6/7	8 / 4	10/3	10 / 5	10 / 10	12 / 5	16/1	17 / 2		
Stroke volume	ml/Hub	0.56	0.74	0.93	0.93	0.93	1.11	1.48	1.57		
Stroke frequency	1/min				18	30					
PE hose	mm	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	6 x 8	6 x 8		
PVDF hose	mm	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	6 x 8	6 x 8		
Pump head/ Valve size	Туре	K 3/8"									
Dispatch weight	kg				2	.2					

^{*} The listed dosing rates refer to H₂O measurements and the pressure indicated!



Order Code

	er Coc	эе											
Serie	S V												
	~~	Version		11-		.11	. .						
	CO	Basic model with manual stroke frequency adjustment, without level monitor.											
	CL		With level control										
	IS	with ie	With level control and contact pulse input for single dosing stroke										
			Dosing										
		1 (00	l/h	bar									
		1/20	1	20									
		2/15	2	15									
		2/18	2	18									
		4/10	4	10									
		4/15	4	15									
		4/18	4	18									
		5/10	5	10									
		5/10	5	15									
		6/7	6	7									
		8/4	8	4									
		10/3	10	3									
		10/5	10	5									
		10/10	10		10								
		12/5	12	5									
		16/1	16	1									
		17/2	17	2									
			5-		ng ar								
			PE					nylene (PE), Suction hose: Polyvinyl chloride (PVC)					
			PVDF	Poly	1		Joriae	e (PVDF)					
				.,	O-Ri	_	@1						
				V		(Vito	n®)						
				Е	EPD/								
								on to the electric supply					
					0			+/-15%					
					1			+/-15%					
					2			+/-15%					
					3	12 \	1	/-15%					
								s and leads					
		0 Europe (Schuko)											
		1 Without plug											
		Colour											
		B Blau											
							G	Grau					
								*other colours available on request					
									1				
٧	CL	4/10	PE	V	0	0	В	(example order)					

Your selection:

٧											

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The following accessories are included in the scope of delivery for the V series:



- Injection valve made of PVDF
- Foot valve with level switch to indicate when empty made of PVDF (Foot valve Version V CO without signal for empty)
- Suction hose PVC
- Dosing hose PVDF
- Ventilation hose (PVC)



Solenoid diaphragm dosing pump Series VA

Capacity range 1 ... 13.5 l/h, with self-ventilating pump head



General information

Capacity range: 1 ... 13.5 l/h,
 Pressure range: 18 ... 2 bar

Pump head made of PVDF

Pumps available in different standard colours.
 Special colours available on request.

Technical specifications

Model	VA CO	VA CL	VA IS
Dosing systems	constant	constant	constant / proportional
Stroke frequency adjustment	0 100 %	0 100 %	0 100 %
Stroke length adjustment	ī	-	-
Level control	-	•	•
Digital signal	-	-	•
Current signal 0/4mA = 0 pulses	-	-	-
20mA = max. pulses Pulse division	1:10	1:10	1:10
	1.10	1.10	1.10
Pulse multiplier	-	-	-
Additional alarm relay	-	• (optional)-	• (optional)



Technical specifications

Series VA		1/15	2/10	2 /18	3/15	3.4/10	4/7	5.5/4
Dosing capacity*	I/h / bar	1 / 15	2 / 10	2 / 18	3 / 15	3.4 / 10	4 / 7	5.5 / 4
Stroke volume	ml/Stroke	0.1	0.19	0.19	0.28	0.33	0.37	0.51
Stroke frequency	1/min				180			
PE hose	mm	4 x 6	4 x 6	4 x 8	4 x 6	4 x 6	4 x 6	4 x 6
PVDF hose	mm	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6
Pump head / Valve size	Туре				KA 3/8"			
Dispatch weight	kg				2,2			

Technical specifications

Series VA		7/3	7/10	7.5/5	9/5	13/2	13.5/1
Dosing capacity*	I/h / bar	7/3	7 / 10	7.5 / 5	9 / 5	13 / 2	13.5 / 1
Stroke volume	ml/Hub	0.65	0.65	0.70	0.84	1.2	1.25
Stroke frequency	1/min			18	30		
PE hose	mm	4 x 6	4 x 6	4 x 6	4 x 6	6 x 8	6 x 8
PVDF hose	mm	4 x 6	4 x 6	4 x 6	4 x 6	6 x 8	6 x 8
Pump head / Valve size	Туре			K 3/	A 8"		
Dispatch weight	kg			2.	,2		

^{*}The listed dosing rates refer to $H_2\mbox{O}$ measurements and the pressure indicated!



Order Code

Version:

CO Basic model without level control

Series VA

CL	With leve	level control									
IS				ontact	pulse	e for s	single stroke				
		Dosing									
		l/h	bar								
	1/15	1	15								
	2/10	2	10								
	2/18	2	18								
	3/15	3	15								
	3.4/10	3.4	10								
	4/7	4	7								
	5.5/4	5.5	4								
	7/3	7	3								
	7/10	7	10								
	7.5/5	7.5	5								
	9./5	9	5								
	13/2	13	2								
	13.5/1	13.5	1								
			Dosing and suction hose								
		PE	Dosin	ig hose	e: Pol	yethy	lene (PE), Suction hose: Polyvinyl chloride (PVC)				
		PVDF	Polyv	inylide	n fluc	oride	(PVDF)				
				O-Rir	ng						
			٧	FPM	FPM (Viton®)						
			Е	EPDA	Λ						
					Elec	ctrica	l connection				
				0			+/-15%				
				1			+/-15%				
				2		24 VAC, +/-15%					
				3	12 '	1	+/-15%				
							gs and leads				
					0		ppe (Schuko)				
					1	With	nout plug				
B Blue G Grey											
							*other colours available on request				
						_	1				
CL	4/7	PE	V	0	0	В	(example order)				

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Your selection:

VA



The following accessories are included in the scope of supply for the VA series:

- Injection valve made of PVDF
- Foot valve with level switch to indicate when empty; made of PVDF (Foot valve Version VA CO without signal for empty)
- Suction hose PVC
- Dosing hose PVDF
- Ventilation hose (PVC)



Solenoid Diaphragm dosing pump Series VMS

Capacity range 1 ... 17 I/h



General information:

Capacity range: 1 ... 17 l/h,
Pressure range: 20 ... 2 bar
Pump head made of PVDF;

Pumps available in different standard colours.
 More colours available on request.

Model	VMS-MF	VMS-PH	VMS-RH
Dosing	Multifunction mode (constant, pulse division, Pulse multiplication, pulse batch, ppm (mg/I), %, Batch, Volt, mA)	Integrated pH measurement 0.00 – 14.00 pH	Integrated Redox measurement 0 – 2000 mV
Dosing system	constant / proportional	proportional	proportional
Stroke frequency adjustment	proportional to input signal	proportional to measurement value	proportional to measurement value
Stroke length adjustment	-	-	-
Level control	•	•	•
Standby input	•	•	•
Flow sensor input	-	-	-
Additional alarm relay	• (optional)	• (optional)	• (optional)



Technical specifications

SerieS VMS		1/20	2/15	2/18	4/10	4/15	4/18	5/10	5/15
Dosing capacity	I/h / bar	1 / 20	2/15	2 / 18	4 / 10	4 / 15	4 / 18	5 / 10	5 /15
Stroke volume	ml/Hub	0.09	0.19	0.19	0.37	0.37	0.37	0.46	0.46
Stroke frequency	1/min				18	30			
PE hose	mm	4 x 8	4 x 6	4 x 8	4 x 6	4 x 6	4 x 8	4 x 6	4 x 6
PVDF hose	mm	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6
Pump head / Valve size	Туре	J 3/8"				K 3/8"			
Dispatch weight	kg				2	.2			

Technical specifications

Series VMS		6/7	8/4	10/3	10/5	10/10	12/5	16/1	17/2
Dosing capacity	I/h / bar	6/7	8 / 4	10/3	10 / 5	10 / 10	12 / 5	16/1	17 / 2
Stroke volume	ml/Hub	0.56	0.74	0.93	0.93	0.93	1.11	1.48	1.57
Stroke frequency	1/min				18	30			
PE hose	mm	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	6 x 8	6 x 8
PVDF hose	mm	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	6 x 8	6 x 8
Pump head / Valve size	Туре				3/	< 8"			
Dispatch weight	kg				2	.2			

^{*} The listed dosing rates refer to H₂O measurements and the pressure indicated!



Carias VAAC									
Series VMS	1,, .								
	Versio		1						
MF		Multifunction mode							
PH	_	integrated pH measurement							
RH	Integro	ntegrated Redox (ORP) measurement							
		Dosing		y					
	1 (00	l/h	bar						
	1/20	1	20						
	2/15	2	15						
	2/18	2	18						
	4/10	4	10						
	4/15	4	15						
	4/18	4	18						
	5/10	5	10						
	5/10	5	15						
	6/7	6	7						
	8/4	8	4						
	10/3	10	3						
	10/5	10	5						
	10/10	10	10						
	12/5	12	5						
	16/1	16	1						
	17/2	17	2						
			Dosing						
		PE	_				en (PE), Suction hose: Polyvinyl chloride (PVC)		
		PVDF	Polyvir	-		ide ((PVDF)		
				O-Ri					
			V		(Vitor	ነ [®])			
			Е	EPD1	,				
							l connection		
				0			+/-15%		
				1			+/-15%		
				2			+/-15%		
				3			+/-15%		
							gs and leads		
					0		ppe (Schuko)		
		1 Without plug							
							Colour		
						В	Blue		
						G	Grey		
							*Other colours available on request		
					-				

VMS- MF 5/10 PE V 0 0 B (example order)

	election:				
VMS-					

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The following accessories are included in the scope of supply of KMS Series:

- Injection valve (PVDF)
- Foot valve with level switch to indicate empty (PVDF)
- Suction hose PVC
- Dosing hose PVDF
- Ventilation hose PVC



Solenoid diaphragm dosing pump Series VMSA

Capacity range 1 ... 13 l/h, with self-ventilating pump head



General information

• Capacity range: 1 ... 13.5 l/h, Pressure range: 18 ... 1 bar

Pump head made of PVDF;Pumps available in different standard colours;

Special colours available on request.

Model	VMSA-MF	VMSA-PH	VMSA-RH	
Dosing	Multifunction mode (constant, pulse division, pulse multiplication, pulse batch, PPM (mg/l), %, Batch, Volt, mA	Integrated pH measurement 0.00 – 14.00 pH	Integrated Redox measurement 0 – 2000 mV	
Dosing system	Constant / proportional	proportional	proportional	
Stroke frequency adjustment	proportional to input signal	proportional to measurement value	Proportional to measurement value	
Stroke length adjustment	-	-	-	
Level control	•	•	•	
Standby input	•	•	•	
Flow sensor input	-	-	-	
Additional alarm relay	• (optional)	• (optional)	• (optional)	



Technical specifications

Series VMSA		1/15	2/10	2 /18	3/15	3.4/10	4/7	5.5/4	
Dosing capacity*	I/h / bar	1 / 15	2/10	2/18	3 / 15	3.4 / 10	4/7	5.5 / 4	
Stroke volume	ml/Stroke	0.1	0.19	0.19	0.28	0.33	0.37	0.51	
Stroke frequency	1/min				180				
PE hose	mm	4 x 6	4 x 6	4 x 8	4 x 6	4 x 6	4 x 6	4 x 6	
PVDF hose	mm	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	4 x 6	
Pump head / Valve size	Туре				KA 3/8"				
Dispatch weight	kg		2,2						

Technical specifications

Series VMSA		7/3	7/10	7.5/5	9/5	13/2	13.5/1		
Dosing capacity*	I/h / bar	7/3	7 / 10	7.5 / 5	9/5	13 / 2	13.5 / 1		
Stroke volume	ml/Hub	0.65	0.65	0.70	0.84	1.2	1.25		
Stroke frequency	1/min	180							
PE hose	mm	4 x 6	4 x 6	4 x 6	4 x 6	6 x 8	6 x 8		
PVDF hose	mm	4 x 6	4 x 6	4 x 6	4 x 6	6 x 8	6 x 8		
Pump head /	Туре	KA							
Valve size	1700	3/8"							
Dispatch weight	kg			2.	,2				

^{*}The listed dosing rates refer to H₂O measuremtns and the pressure indicated!

Order Code

Order Co	ode										
Series VA	۸SA										
		Version	1								
	MF	Multifur	nction m	node							
	PH	Integra	ited pH i	d pH measurement							
	RH	Integra	ited Red	d Redox (ORP) measurement							
•			Dosing	capo	icity						
			l/h	baı	•						
		1/15	1	15							
		2/10	2	10							
		2/18	2	18							
		3/15	3	15							
		3.4/10	3.4	10							
		4/7	4	7	7						
		5.5/4	5.5	4	4						
		7/3	7	3							
		7/10	7	10							
		7.5/5	7.5	5							
		9/5	9	5							
		13/2	13	2	!						
		13.5/1	13.5	1							
				Dosi	ng and suction hose						
			PE	Dosi	ng hose: Polyethylen (PE), Suction hose: Polyvinyl chloride (PVC)						
			PVDF	Poly	vinyliden fluoride (PVDF)						
					O-Ring						
				V	FPM (Viton®)						
				Е	EPDM						



	Electr	lectrical connection						
0	230V	230VAC, +/-15%						
1	115V							
2	24 VAC, +/-15%							
3	12 VE							
		Plugs	and leads					
	0	Europ	pe (Schuko)					
	1	Witho	out plug					
			Colour					
		В	Blue					
		G	Grey					
			*other colours available on request					

VMSA-	MF	4	PE	V	0	0	В	(Example order)	
Your sele	ection	:							
VMSA.									

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The following accessories are included in the scope of supply of VMSA Series:

- Injection valve PVDF
- Foot valve with level switch to indicate empty; PVDF
- Suction hose PVC
- Dosing hose PVDF
- Ventilation hose (PVC)



Solenoid diaphragm dosing pump Series K

Capacity range 1 ... 18 l/h



General information

Capacity range: 1 ... 18 l/h, Pressure range: 20 ... 2 bar

- Pump head made of PVDF; Acrylic (PMMA) or stainless steel
- Pumps available in different standard colours
 Special colours available on enquiry
- Version available for high-viscosity media up to 8000 CPS

Model	K CO	K CL	K PLUS
Dosing system	constant	constant	constant / proportional
Stroke frequency adjust- ment	0 100 %	0 100 %	0 100 %
Stroke length adjustment	•	•	•
Level control	-	•	•
Digital signal	-	-	•
Current Signal 0/4mA = 0 pulses 20mA = max. pulses	-	-	•
Pulse divider	1:10	1:10	1:10 10:100 100:1000
Pulses multiplier	-	-	1:10
Additional alarm relay	-	-	• (optional)



Technical sprecifications

Series K		1/3	1/5	1/20	2/18	4/15	5/10		
Dosing capacity	I/h / bar	1/3	1/5	1 / 20	2 / 18	4 / 15	5 / 10		
Stroke volume Min.	real /I I. de	0.03	0.03	0.03	0.06	0.11	0.14		
Max.	ml/Hub	0.09	0.09	0.09	0.19	0.37	0.46		
Stroke frequency 1/min			180						
Hose connection	mm	4 x 6							
	PVDF	l 3/8"	l 3/8"	l 3/8"	L 3/8"	L 3/8"	L 3/8"		
Pump Head / Valve size	Stainless Steel	li 3/8"	li 3/8"	li 3/8"	Li 3/8"	Li 3/8"	Li 3/8"		
	Acrylic	A 3/8"	A 3/8"	A 3/8"	B 3/8"	B 3/8"	B 3/8"		
up to 8000 CPS	Acrylic**	-	-	-	B-LPV	B-LPV	B-LPV		
Dispatch Weight	kg		4.1						
Energy Consumption	W	19							

Series K		8/8	10/5	18/2				
Dosing capacity	I/h / bar	8/8	10 / 5	18 / 2				
Stroke volume Min.	ml/Hub	0.22	0.28	0.5				
Max.	THITHUD	0.74	0.93	1.67				
Stroke frequency	1/min		180					
Hose connection	mm	4 x 6		6 x 8				
	PVDF	L 3/8"	L 3/8"	M 3/8"				
Pump head / Valve size	Stainless Steel	Li 3/8"	Li 3/8"	G 1/2"				
	Acrylic	B 3/8"	B 3/8"	G 1/2"				
up to 8000 CPS	Acrylic**	B-LPV	B-LPV	C-LPV				
Dispatch weight	kg		4.1					
Energy Consumption	W	19						

^{*}The listed dosing rates refer to H_2O measurements and the pressure indicated!



Order Code						
Series K						
	Version					
СО	Basic Mod	del without level control				
CL	with level	control				
PLUS	with signa	l input and level control				
		Pump Head	Valves	Dosing	capacity	
				l/h	bar	
	1/3 PV	Polyvinyliden fluoride (P\	/DF) PVDF	1	3	
	1/5 PV	11	PVDF	1	5	
	1/20 PV	11	PVDF	2	20	
	2/18 PV	11	PVDF	2	18	
	4/15 PV	11	PVDF	4	15	
	5/10 PV	11	PVDF	5	10	
	8/8 PV	11	PVDF	8	8	
	10/5 PV	"	PVDF	10	5	
	18/2 PV	"	PVDF	18	2	
	1/3 PS	 Polyvinyliden fluoride (P\	/DF) PVDF + PVDF hose	1	3	
	1/5 PS	"	PVDF	1	5	
	1/20 PS	11	PVDF	1	20	
	2/18 PS	11	PVDF	2	18	
	4/15 PS	"	PVDF	4	15	
	5/10 PS	"	PVDF	5	10	
	8/8 PS	11	PVDF	8	8	
	10/5 PS	11	PVDF	10	5	
	18/2 PS	11	PVDF	18	2	
	10/213		1 401	10	2	
	1/3 AC	Acrylic / PMMA	PVDF	1	3	
	1/5 AC	"	PVDF	1	5	
	1/20 AC	11	PVDF	1	20	
	2/18 AC	"	PVDF	2	18	
	4/15 AC	11	PVDF	4	15	
	5/10 AC	11	PVDF	5	10	
	8/8 AC	11	PVDF	8	8	
	10/5 AC	11	PVDF	10	5	
	18/2 AC	11	PVDF	18	2	
	10/2 AC		FVDF	10	Z	
	1/3 SS	Stainless Steel AISI 316	Stainless Steel AISI 31	Z 1	2	
		"	"		3	
	1/5 \$\$	11	"	1	5	
	1/20 SS			1	20	
	2/18 SS			2	18	
	4/15 SS		"	4	15	
	5/10 SS			5	10	
	8/8 \$\$			8	8	
	10/5 SS		"	10	5	
	18/2 SS	11	"	18	2	



2/18 LP	Acr	ylic fo	or visc	cous me	dia PP	2	18		
4/15 LP		"	"		PP	4	10		
5/10 LP		"	"		PP	5	10		
8/8 LP		"	"						
10/5 LP		"	"						
18/2 LP		"	"						
		O-R	ing						
	V	FPM	(Vita	n®)					
	Е	EPD	М						
	VT	FPM	(Vito	n®) PTFE					
			Con	nection	to the electric sup	ply			
		0	230\	/AC, +/-	10%, 50/60 Hz				
		1	115\	/AC, +/-	10%, 50/60 Hz				
		2	48 V	AC, +/-1	0%, 50/60 Hz				
		3	12 V	DC, +/-1	0%				
	4 24 VDC, +				/-10%				
				Plugs a	nd leads				
			0	Europa	(Schuko)				
			1	Open e	end				
				Al	arm relay (empty	indicator)			
				0 wi	thout relay				
1				1 W	ith switchover relo	ay, normally open	l		
					Colour				
				В	Blue				
				G					
					*other colours	available on requ	est		
					•				

K PLUS 10/5 PV V 0 0 B (example order)
--

Your selection:

1001 501					
K					

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Scope of Supply

The following accessories are included in the scope of supply of series K:

- Injection valve (PVDF)
- Foot valve with level switch to indicate empty (PVDF) (Version K-CO foot valve without empty indicator)
- Suction Hose (PVC)
- Dosing hose (PVDF)
- Ventilation hose (PVC)

^{**} Hose connection of pump head Acrylic up to 8000 CPS: 16x22 PVC suction hose, 8x12 PE pressure hose. Foot valve made of stainless steel not included in the scope of supply.



Solenoid diaphragm dosing pump Series KA

Capacity range 0.5 - 13 l/h, with self-ventilating pump head



General information

Capacity range: 0.5 - 13 l/h
 Pressure range: 20 - 2 bar

Pump head made of PVDF; option of Acrylic (PMMA)

Pumps available in different standard colours.
 Special colours available on request

Model	KA CO	KA CL	KA PLUS
Dosing system	constant	constant	constant / proportional
Stroke frequency adjust- ment	0 100 %	0 100 %	0 100 %
Stroke length adjustment	•	•	•
Level control	-	•	•
Digital signal	-	-	•
Current Signal 0/4mA = 0 pulses 20mA = max. pulses	-	-	•
Pulse divider	1:10	1:10	1:10 10:100 100:1000
Pulses multiplier	-	-	1:10
Addtional alarm relay	-	-	• (optional)



Technical specifications

Series KA		0.5/20	1/18	3/15	3.5/10				
Dosing capacity	I/h / bar	0.5 / 20	1 / 18	3 / 15	3.5 / 10				
Stroke volume Min.	mal /I I ula	0.014	0.03	0.08	0.10				
Max.	ml/Hub	0.046	0.32						
Stroke frequency	1/min	180							
Hose connection	mm	4 x 6							
Pump head /	PVDF	IA 3/8"	LA 3/8"	LA 3/8"	LA 3/8"				
Valve size	Acrylic AA 3/8"								
Dispatch weight	kg		4.	.1					
Energy consumption	W	19							

Series KA		5.5/8	7.5/5	13/2
Dosing capacity	I/h / bar	5.5 / 8	7.5 / 5	13 / 2
Stroke volume Min.	mal /I I ula	0.15	0.21	0.37
Max.	ml/Hub	0.51	0.69	1.20
Stroke frequency	1/min		180	
Hose connection	mm	4 >	(6	6 x 8
Pump head/	PVDF	LA 3/8"	LA 3/8"	MA 3/8"
Valve size	Acrylic	AA 3/8"	AA 3/8"	BA 3/8"
Dispatch weight	kg		4.1	
Energy consumption	W		19	

^{*}The listed dosing rates refer to $H_2\mbox{O}$ measurements and the pressure indicated!



rder Code								
eries KA								
	Version:							
CO	Basic model v		f level con	itrol				
CL	with level cor							
PLUS	with signal inp			ntrol				
		Pun	np Head		Valves	Dosing	capacity	
	0.5/20 PV	Poly		fluoride (F	PVDF) PVDF	0.5	20	
	1/18 PV		"		PVDF	1	18	
	3/15 PV		"		PVDF	3	15	
	3/10 PV		"		PVDF	3.5	10	
	5/8 PV		" "		PVDF	5.5	8	
	7/5 PV		"		PVDF	7.5	5	
	13/2 PV		"		PVDF	13	2	
	0.5.400.00	D . I) (DE) D) (DE : D) (D	51	00	
	0.5/20 PS	POI	vinyliden 1 " "	iuoriae (F	PVDF + PVD		20	
	1/18 PS				PVDF	1	18	
	3/15 PS				PVDF	3	15	
	3/10 PS				PVDF	3.5	10	
	5/8 PS				PVDF	5.5	8	
	7/5 PS		"		PVDF	7.5	5	
	13/2 PS		" "		PVDF	13	2	
	0.5/20 AC	Acr	ylic / PMM	А	PVDF	0.5	20	
	1/18 AC	7 (С1	" "	, (PVDF	1	18	
	3/15 AC		"		PVDF	3	15	
	3/10 AC				PVDF	3.5	10	
	5/8 AC		"		PVDF	5.5	8	
	7/5 AC				PVDF	7.5	5	
	13/2 AC		"		PVDF	13	2	
	10/2710		O-Ring		1 121	10		
		V	FPM (Vito	n®)				
		E	EPDM	,				
		VT	FPM (Vito	n®)PTFE				
				-	o the electric supp	oly		
					0%, 50/60 Hz	· -		
			1 115	/AC, +/-1	0%, 50/60 Hz			
			2 48 V	'AC, +/-10	0%, 50/60 Hz			
			3 12 V	DC, +/-10	0%			
			4 24 V	'DC, +/-10	0%			
				Plugs an				
			0	Europa				
			1	open er				
					rm relay (empty i	ndicator)		
					nout relay			
				1 with	n switchover relay	, normally open		
				В	Colour Blue			
				G	Grey	سحماهام مامانه	lost	
					*other colours a	valiable on requ	l€21	
KA PLUS	13/2 PS	V	0 0	0 B	(example order)			
NA 1103	10/213	•	0 0	0	(availible order)			

KA	Your sele	ction:	n:				
RA .	I KA I						



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Scope of Supply

The following accessories are included in the scope of supply of KA series:

- Injection valve (PVDF)
- Foot valve with level switch to indicate empty (PVDF) (Version KA-CO foot valve without empty indicator)
- Suction hose (PVC)
- Dosing hose (PVDF)
- Ventilation hose (PVC)



Solenoid diaphragm dosing pump Series KMS

Capacity range 1 ... 18 l/h





General information

Capacity range: 1 ... 18 I/h,
 Pressure range: 20 ... 2 bar
 Connection for flow monitor (SEFL)
 Pump head made of PVDF; optional
 Acrylic (PMMA) or stainless steel

Version available for high-viscosity media

up to 8000 CPS

Model	KMS-MF	KMS-PH	KMS-RH
Dosing	Multifunction mode (constant, pulse division, Pulse multiplication, pulse batch, ppm (mg/I), %, Batch, Volt, mA)	Integrated pH measurement 0.00 – 14.00 pH	Integrated Redox measurement 0 – 2000 mV
Dosing system	constant / proportional	proportional	proportional
Stroke frequency adjustment	proportional to input signal	proportional to measurement value	proportional to measurement value
Stroke length adjustment	•	•	•
Level control	•	•	•
Standby input	•	•	•
Flow sensor input	•	-	-
Additional alarm relay	•	• (optional)	• (optional)

Model	KMS-CL	KMS-EN
Dosing	Integrated Chlorine measurement 0,00 – 2,00 ppm oder 0,00 – 10,00 ppm	Integrated timer min., h., day, week
Dosing System	proportional	proportional
Stroke frequency adjustment	proportional to measurement value	-
Stroke length adjustment	•	•
Level control	•	•
Standby input	-	-
Flow sensor input	-	-
Additional alarm relay	• (optional)	-



Technical Specifications

Series KMS		1/3	1/5	1/20	2/18	4/15	5/10	
Dosing capacity	I/h / bar	1/3	1/5	1 / 20	2 / 18	4 / 15	5 / 10	
Stroke volume Min.	pol/Hulb	0.03	0.03	0.03	0.06	0.11	0.14	
Max.	ml/Hub	0.09	0.09	0.09	0.19	0.37	0.46	
Stroke frequency	1/min		180					
Hose connection	mm	4 x 6						
	PVDF	l 3/8"	l 3/8"	l 3/8"	L 3/8"	L 3/8"	L 3/8"	
Pump head / Valve size	Stainless Steel	li 3/8"	li 3/8"	li 3/8"	Li 3/8"	Li 3/8"	Li 3/8"	
	Acrylic	A 3/8"	A 3/8"	A 3/8"	B 3/8"	B 3/8"	B 3/8"	
Up to 8000 CPS	Acrylglas**	-	-	-	B-LPV	B-LPV	B-LPV	
Dispatch weight	kg			4	.1			
Energy consumption	W			1	9			

rechnical specifications	<u> </u>						
Series KMS		8/8	10/5	18/2			
Dosing capacity	I/h / bar	8/8	10 / 5	18 / 2			
Stroke volume Min.	ml/Hub	0.22	0.28	0.5			
Max.	ml/Hub	0.74	0.93	1.67			
Stroke frequency	1/min	180					
Hose connection	mm	4:	x 6	6 x 8			
	PVDF	L 3/8"	L 3/8"	M 3/8"			
Pump head / Valve size	Stainless Steel	Li 3/8"	Li 3/8"	G 1/2"			
	Acrylic	B 3/8"	B 3/8"	G 1/2"			
Up to 8000 CPS	Acrylic**	B-LPV	B-LPV	C-LPV			
Dispatch weight	kg		4.1				
Energy consumption	W	19					

^{*}The listed dosing rates refer to H_2O measurements and the pressure indicated!



Series KN	۸S						
		Version					
	MF	Multifunction	n mode				
	РН	integrated p	oH measurement				
	RH	Integrated F	Redox (ORP) measuremen	t			
	CL	integrated (Chlorine measurement				
	EN	Timer					
			Pump head	Valve I	Dosing	capacity	
					l/h	bar	
		1/3 PV	Polyvinyliden fluoride (PV	DF) PVDF	1	3	
		1/5 PV	"	PVDF	1	5	
		1/20 PV	"	PVDF	2	20	
		2/18 PV	11	PVDF	2	18	
		4/15 PV	11	PVDF	4	15	
		5/10 PV	11	PVDF	5	10	
		8/8 PV	11	PVDF	8	8	
		10/5 PV	11	PVDF	10	5	
		18/2 PV	11	PVDF	18	2	
		1/3 PS	Polyvinyliden fluoride (PV	'DF)PVDF + PVDF hose	1	3	
		1/5 PS	11	PVDF	1	5	
		1/20 PS	11	PVDF	1	20	
		2/18 PS	11	PVDF	2	18	
		4/15 PS	11	PVDF	4	15	
		5/10 PS	11	PVDF	5	10	
		8/8 PS	11	PVDF	8	8	
		10/5 PS	11	PVDF	10	5	
		18/2 PS	11	PVDF	18	2	
		1/3 AC	Acrylic / PMMA	PVDF	1	3	
		1/5 AC	11	PVDF	1	5	
		1/20 AC	11	PVDF	1	20	
		2/18 AC	11	PVDF	2	18	
		4/15 AC	11	PVDF	4	15	
		5/10 AC	11	PVDF	5	10	
		8/8 AC	11	PVDF	8	8	
		10/5 AC	11	PVDF	10	5	
		18/2 AC	11	PVDF	18	2	
		1/3 SS	Stainless Steel AISI 316	Stainless Steel AISI 316	5 1	3	
		1/5 SS	44	"	1	5	
		1/20 SS	44	"	1	20	
		2/18 SS	11	"	2	18	
		4/15 SS	11	"	4	15	
		5/10 SS	11	"	5	10	
		8/8 \$\$	11	"	8	8	
		10/5 SS	11	"	10	5	
		18/2 SS	11	"	18	2	



2/18 LP	Acr	ylic f	or visc	cous n	nedio	a PP		2	18			
4/15 LP		" "				PP		4	10			
5/10 LP		"	"			PP		5	10			
8/8 LP		"	"			PP		8	8			
10/5 LP		"	"			PP		10	5			
18/2 LP		"	"			PP		18	2			
		O-R	ing									
	V	FP∧	(Vito	n®)								
	Е	EPD	Μ									
VT FPM (Viton®) PTFE												
			Con	nectio	n to	the electric su	pply					
		0	230\	/AC, +	-/-10	%, 50/60 Hz						
	1 115VAC,					%, 50/60 Hz						
		2	48 V	AC, +	/-109	%, 50/60 Hz						
		3	12 V	DC, +	/-109	%						
		4	24 V	DC, +	/-109	%						
				Plug	s and	d leads						
			0	Euro	pa (S	Schuko)						
			1	Ope	n en	d						
					Alar	m relay (empt	y indicator)					
				0	ohn	e Relais						
				1	mit l	Umschaltrelais,	anziehend					
	Colour											
					В	Blue						
					G							
						*other colours	available on	reque	est			
<u> </u>												

	KMS	MF	2/18 AC	٧	0	0	0	В	(example order)	
--	-----	----	---------	---	---	---	---	---	-----------------	--

Your selection:

KMS					

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Scope of Supply

The following accessories are included in the scope of supply of KMS Series:

- Injection valve (PVDF)
- Foot valve with level switch to indicate empty (PVDF)
- Signaling cable

- Suction hose PVC
- Dosing hose PVDF
- Ventilation hose (PVC)

^{**} Hose connection of pump head Acrylic up to 8000 CPS: 16x22 PVC suction hose, 8x12 PE pressure hose. Foot valve made of stainless steel not included in the scope of supply.



Solenoid diaphragm dosing pump Series KMSA

Capacity range 0.5 - 13 l/h, with self-ventilating pump head





General information

Capacity range: 0.5 - 13 l/h Pressure range: 20 - 2 bar

Pump head made of PVDF; optional Acrylic (PMMA)

Pumps available in different standard colours Special colours available on request

a min			
	8	0	
			OUSATRONIC (C
			MAIN SOUR
		(0 °	

Model	KMSA-MF	KMSA-PH	KMSA-RH	
Dosing	Multifunction mode (constant, pulse division, Pulse multiplication, pulse batch, ppm (mg/l), %, Batch, Volt, mA)	Integrated pH measurement 0.00 – 14.00 pH	Integrated Redox measurement 0 – 2000 mV	
Dosing system	constant / proportional	Proportional	proportional	
Stroke frequency adjustment	proportional to input signal	proportional to measurement value	proportional to measurement value	
Stroke length adjustment	•	•	•	
Level Control	•	•	•	
Standby input	•	•	•	
Flow sensor input	•	-	-	
Additional alarm relay	•	• (optional)	• (optional)	

Model	KMSA-CL	KMSA-EN
Dosing	Integrated Chlorine measurement 0,00 – 2,00 ppm oder 0,00 – 10,00 ppm	integrated Timer min., h., day, week
Dosing system	proportional	proportional
Stroke frequency adjustment	proportional to measurement value	-
Stroke length adjustment	•	•
Level control	•	•
Standby input	-	-
Flow sensor input	-	-
Additional alarm relay	• (optional)	-



Technical specifications

Series KMSA		0.5/20	1/18	3/15	3.5/10			
Dosing capacity	I/h / bar	0.5 / 20	1 / 18	3 / 15	3.5 / 10			
Stroke volum Min.	mal /I I ula	0.014	0.03	0.08	0.10			
Max.	ml/Hub	0.046	0.09	0.28	0.32			
Stroke frequency	1/min	180						
Hose connection	mm	4 x 6						
Pump head /	PVDF	IA 3/8"	LA 3/8"	LA 3/8"	LA 3/8"			
Valve size	Acrylic	AA 3/8"	AA 3/8"	BA 3/8"	BA 3/8"			
Dispatch weight	kg	4.1						
Energy consumption	W	19						

Series KMSA		5.5/8	7.5/5	13/2			
Dosing capacity	I/h / bar	5.5 / 8	7.5 / 5	13 / 2			
Stroke volum Min.	mal /I II de	0.15	0.21	0.37			
Max.	ml/Hub	0.51	0.69	1.20			
Stroke frequency	1/min						
Hose connection	mm	4 >	6 x 8				
Pump head /	PVDF	LA 3/8"	LA 3/8"	MA 3/8"			
Valve size	Acrylic	AA 3/8"	AA 3/8"	BA 3/8"			
Dispatch weight	kg	4.1					
Energy consumption	W	19					

^{*}The listed dosing rates refer to H_2O measurements and the pressure indicated!



Series KMSA												
	Version											
MF	Multifunction	mode	е									
PH	integrated pl	H med	asurei	ment								
RH	Integrated Re					nent						
CL	integrated CI											
EN	Timer											
		Pum	np he	ad		Valves	Dosing	g capacity				
							l/h	bar				
	0.5/20 PV	Poly	vinyli	den f	luoride	e (PVDF) PVDF	0.5	20				
	1/18 PV		"	"		PVDF	1	18				
	3/15 PV		"	"		PVDF	3	15				
	3/10 PV		"	"		PVDF	3.5	10				
	5/8 PV		"	"		PVDF	5.5	8				
	7/5 PV		"	"		PVDF	7.5	5				
	13/2 PV		"	"		PVDF	13	2				
	,						-					
	0.5/20 PS	Poly	vinyli	den f	luoride	e (PVDF)PVDF + PVDF hose	0.5	20				
	1/18 PS	,	"	"		PVDF	1	18				
	3/15 PS		"	"		PVDF	3	15				
	3/10 PS		"	"		PVDF	3.5	10				
	5/8 PS		"	"		PVDF	5.5	8				
	7/5 PS		"	"		PVDF	7.5	5				
	13/2 PS		"	"		PVDF	13	2				
	10/213					1 101	10	2				
	0.5/20 AC	Acr	ylic /	РММ	Α	PVDF	0.5	20				
	1/18 AC		"	"		PVDF	1	18				
	3/15 AC		"	"		PVDF	3	15				
	3/10 AC		"	"		PVDF	3.5	10				
	5/8 AC		"	"		PVDF	5.5	8				
	7/5 AC		"	"		PVDF	7.5	5				
	13/2 AC		"	"		PVDF	13	2				
			O-R	ing								
		V	FPM	(Vito	n®)							
		Е	EPD	Μ								
		VT	FPM	(Vito	n®) PT	FE						
				Con	nectio	n to the electric supply						
			0	230\	/AC, +	/-10%, 50/60 Hz						
			1	115\	/AC, +	/-10%, 50/60 Hz						
			2	48 V	'AC, +,	/-10%, 50/60 Hz						
			3	12 V	DC, +,	/-10%						
			4	24 V	DC, +,	/-10%						
					Plugs	and leads						
				0	Europ	oa (Schuko)						
				1	Oper							
				1		Alarm relay (empty indica	tor)					
					0	Without relay						
					1	With switchover relay, norr	nally ope	en				
									•			



Ī		Colour	
	В	Blue	
	G	Grey	
		*other colours available on request	

KMSA	MF	1/18 AC	٧	0	0	0	В	(example order)	
Your se	election:	•							
KMSA									

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Scope of Supply

The following accessories are included in the scope of supply of KMSA Series:

- Injection valve PVDF
- Foot valve with level switch to indicate empty (PVDF)
- Signaling cable

- Suction hose PVC
- Dosing hose PVDF
- Ventilation hose (PVC)



Solenoid diaphragm dosing pump Series T

Capacity range 5 ... 100 l/h



General information

Capacity range: 5 ... 100 l/h, Pressure range: 20 ... 0 bar

Pump head made of PVDF;
 Optional: Acrylic (PMMA)

Pumps available in different standard colours.

Special colours available on request.

Model	T CO	T CL		
Dosing system	constant	constant		
Stroke frequency adjust- ment	0 100 %	0 100 %		
Stroke length adjustment	-	-		
Level control	-	•		
Digital signal	-	-		
Current Signal 0/4mA = 0 pulses 20mA = max. pulses	-	-		
Pulse divider	1:10	1:10		
Pulses multiplier	-	-		
Additional alarm relay	-	-		

Series T		5/20	15 /5	20/4	30/3	50/1	100 /0			
Dosing capacity	I/h / bar	5 / 20	15 / 5	20 / 4	30 / 3	50 / 1	100 / 0			
Stroke volume	ml/Hub	0,55	2.1	2.8	4.2	7,0	14,0			
Stroke frequency	1/min	120								
PE hose	mm	4 x 6	6 x 8	6 x 8	8 x 12	8 x 12	12 x 18			
PVDF hose	mm	4 x 6	6 x 8	6 x 8	8 x 10	8 x 10	12 x 18			
Pump Head / Valve size	PVDF	L 3/8"	N 1/2"	N 1/2"	S 3/4"	\$ 3/4"	T 3/4"			
	Acrylic	B 3/8"	D 1/2"	D 1/2"	E 1/2"	E 1/2"	F 1/2"			
Dispatch weight	kg			5	.7	·				

^{*} The listed dosing rates refer to H₂O measurements and the pressure indicated!



	Version									
CO	Basic Mod	del w	ithout	leve	el con	trol				
CL	with level	cont	rol							
		Pun	np He	ad		Valves		Dosing	capaci	ty
								l/h	bar	
	5/20 PV	Poly	yvinylio	den	fluorio	de(PVDF) PVDF		5	20	
	15/5 PV	·	"			PVDF		15	5	
	20/4 PV		"			PVDF		20	4	
	30/3 PV		"			PVDF		40	3	
	50/1 PV		"			PVDF		50	1	
	100/0 PV		**			PVDF		100	0	
	100/01 4					1 4 01		100	O	
	5/20 PS	Poly	winylia	dan	fluoria	de(PVDF) PVDF	+ PVDE hose	5	20	
	15/5 PS	' '	,, ,,	,, ,,	1100110	PVDF	. 1 401 11030	15	5	
	20/4 PS		**	"		PVDF		20	4	
	30/3 PS		"	44		PVDF		30	3	
			"	"						
	50/1 PS		"	"		PVDF		50	1	
	100/0 PS					PVDF		100	0	
	5/20 AC	A or	ylic / F	2444	4.4	PVDF		5	20	
		ACI	yiic / r	IVIIV	1A					
	15/5 AC		"			PVDF		15	5	
	20/4 AC		"			PVDF		20	4	
	30/3 AC		"			PVDF		30	3	
	50/1 AC		"			PVDF		50	1	
	100/0 AC					PVDF		100	0	
			O-Rir	_	- (A)					
		V	FPM	-	ori°)					
		Е	EPDA		1					
						onnection				
						+/-10%, 50/60 Hz				
						+/-10%, 50/60 Hz				
						-/-10%, 50/60 Hz				
						-/-10%				
			4	24 V		-/-10%				
					_	s and leads				
				0		pe (Schuko)				
				1	Оре	en end				
						Alarm relay (er	mpty indicator)		
					0	Without relay				
]	With switchove	r relay, norma	lly open	1	
						Colour				
						B Blue				
						G Grey				
						I *other cold	ours available	on requ	est	

T	CL	100/0 AC	٧	0	0	0	B (example order)	
V 1 .	1:							
Your sele	ection:							

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The following accessories are included in the scope of supply of series K:

- Injection valve PVDF
- Foot valve with level switch to indicate empty PVDF (Version T-CO foot valve Without empty indicator)
- Suction hose PVC
- Dosing hose PVDF
- Ventilation hose (PVC)



Solenoid diaphragm dosing pump Series TA

Capacity range 3.2 ... 35.0l/h, with self-ventilating pump head



General information

Capacity range: 3.2 ... 35.0 l/h,Pressure range: 20 ... 1 bar

 Pump head made of PVDF; optional: Acrylic (PMMA)

Pumps available in different standard colours.
 Special colours are available on request.

Model	TA CO	TA CL
Dosing system	constant	constant
Stroke frequency adjustment	0 100 %	0 100 %
Level control	-	•
Stroke length adjustment	-	-
Digital signals	-	-
Current signal		
0/4mA = 0 pulses	-	-
20mA = max. pulses		
Pulse division	1:10	1:10
Pulse multiplication	-	-
Additional alarm relays	-	-

Toom to an operation						
Series TA		3.2/20	10/5	13/4	20 /3	35/1
Dosing capacity	I/h / bar	3.2 / 20	10 / 5	13 / 4	20 / 3	35 / 1
Stroke volume	ml/Stroke	0.44	0.83	1.81	4.17	5.35
Stroke frequency	1/min			120		
PVC hose	mm	4 x 6	6 x 8	6 x 8	8 x 12	8 x 12
PVDF hose	mm	4 x 6	6 x 8	6 x 8	8 x 10	8 x 10
Pump head /	PVDF	LA 3/8"	NA 1/2"	NA 1/2"	SA 3/4"	TA 3/4"
Valve size	Acrylic	BA 3/8"	CA 3/8"	DA 1/2"	EA 1/2"	FA 1/2"
Dispatch weight	kg			5.7		

^{*}The given dosing rates refer to H₂O measurements and the pressure indicated.



Order code

Sasic model without level control		Version								
Note Section Sectio	СО		el witho	out leve	l contro	ol				
3/20 PV		With level	control							
10/5 PV			Pump	head			Valves	Dosing	capacity	
10/5 PV		3/20 PV	Polyv	invlider	n fluorid	e(PVF	DE) PVDE	3.2	20	
13/4 PV					11100110	01. 12				
20/3 PV " " " PVDF 20 3 35/1 PV " " " PVDF 35 1				"						
35/1 PV " " PVDF 35 1 3/20 PS Polyvinyliden fluoride(PVDF) PVDF + PVDF hose 3.2 20 10/5 PS " " PVDF 10 5 13/4 PS " " PVDF 13 4 20/3 PS " " PVDF 20 3 35/1 PS " " PVDF 35 1				"						
10/5 PS			"	"						
10/5 PS		3/20 PS	Polyv	inylider	n fluorid	e(PVD)F) PVDF + PVDF h	ose 3.2	20	
13/4 PS						,				
20/3 PS " " PVDF 20 3 35/1 PS " " PVDF 35 1 3/20 AC Acrylic / PMMA ACDF 3.2 20 10/5 AC " ACDF 10 5 13/4 AC " ACDF 13 4 20/3 AC " ACDF 20 3 35/1 AC " ACDF 35 1 O-Ring			"	"						
35/1 PS " " PVDF 35 1 3/20 AC Acrylic / PMMA ACDF 3.2 20 10/5 AC " ACDF 10 5 13/4 AC " ACDF 13 4 20/3 AC " ACDF 20 3 35/1 AC " ACDF 35 1 O-Ring V FPM (Viton®) E EPDM Electric connection 0 230VAC, +/-10%, 50/60 Hz 1 115VAC, +/-10%, 50/60 Hz 2 48 VAC, +/-10%, 50/60 Hz 3 12 VDC, +/-10% 4 24 VDC, +/-10% Plugs and leads Europe (Schuko) 0 Open end			"	"					3	
10/5 AC		35/1 PS	11 11				PVDF	35	1	
10/5 AC		3/20 AC	Acryl	ic / PM	MA		ACDF	3.2	20	
ACDF 35 1		10/5 AC					ACDF	10	5	
Co-Ring		13/4 AC	"				ACDF	13	4	
O-Ring V FPM (Viton®) E EPDM		20/3 AC	"				ACDF	20	3	
V FPM (Viton®) E EPDM		35/1 AC	44				ACDF	35	1	
E EPDM				O-Rin	g					
Electric connection 230VAC, +/-10%, 50/60 Hz 115VAC, +/-10%, 50/60 Hz 2 48 VAC, +/-10%, 50/60 Hz 3 12 VDC, +/-10% 4 24 VDC, +/-10% Plugs and leads Europe (Schuko) 1 Open end Alarm relay (empty indicator) Without relay With switchover relay, normally open Colour B B Blue			V	FPM (Viton®)					
0 230VAC, +/-10%, 50/60 Hz 1 115VAC, +/-10%, 50/60 Hz 2 48 VAC, +/-10%, 50/60 Hz 3 12 VDC, +/-10% 4 24 VDC, +/-10% Plugs and leads 0 Europe (Schuko) 1 Open end Alarm relay (empty indicator) 0 Without relay 1 With switchover relay, normally open Colour B Blue			Е	+						
1 115VAC, +/-10%, 50/60 Hz 2 48 VAC, +/-10%, 50/60 Hz 3 12 VDC, +/-10% 4 24 VDC, +/-10% Plugs and leads 0 Europe (Schuko) 1 Open end Alarm relay (empty indicator) 0 Without relay 1 With switchover relay, normally open Colour B Blue										
2 48 VAC, +/-10%, 50/60 Hz 3 12 VDC, +/-10% 4 24 VDC, +/-10% Plugs and leads 0 Europe (Schuko) 1 Open end Alarm relay (empty indicator) 0 Without relay 1 With switchover relay, normally open Colour B Blue										
3 12 VDC, +/-10% 4 24 VDC, +/-10% Plugs and leads Europe (Schuko) 1 Open end Alarm relay (empty indicator) Without relay 1 With switchover relay, normally open Colour B Blue										
4 24 VDC, +/-10% Plugs and leads 0 Europe (Schuko) 1 Open end Alarm relay (empty indicator) 0 Without relay 1 With switchover relay, normally open Colour B Blue										
Plugs and leads Europe (Schuko) Open end Alarm relay (empty indicator) Without relay With switchover relay, normally open Colour B Blue										
0 Europe (Schuko) 1 Open end Alarm relay (empty indicator) 0 Without relay 1 With switchover relay, normally open Colour B Blue				4 2						
1 Open end Alarm relay (empty indicator) 0 Without relay 1 With switchover relay, normally open Colour B Blue						-				
Alarm relay (empty indicator) 0 Without relay 1 With switchover relay, normally open Colour B Blue										
0 Without relay 1 With switchover relay, normally open Colour B Blue					ГОр			.10 1 3		
1 With switchover relay, normally open Colour B Blue								alcator)		
B Blue					1		•	normally one	n n	
B Blue						VVIII		поппану оре	711	
						D D				
*other colours available on request							•	ailable on roc	nuest	

TA CL 35/1 PV V 0 0 B (example order)

Your selection:

					•
I IA					

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The following accessories are included in the scope of supply of TA series:

- Impfventil PVDF
- Foot valve with level switch to indicate empty (PVDF) (Version TA-CO: foot valve without empty indicator)
- Suction hose PVC
- Dosing hose PVDF
- Ventilation hose (PVC)



Solenoid diaphragm dosing pump Series TMS

Capacity range 5 ... 100 l/h



General information

Capacity range: 5 ... 100 l/h,
Pressure range: 20 ... 0 bar
Pump head made of PVDF;

Optional: Acrylic(PMMA)

Pumps available in different standard colours.
 Special colours available on request.

Model	TMS-MF	TMS-PH	TMS-RH	
Dosing	Multifunction mode (constant, pulse division, Pulse multiplication, pulse batch, ppm (mg/I), %, Batch, Volt, mA)	Integrated pH measurement 0.00 – 14.00 pH	Integrated Redox measurement 0 – 2000 mV	
Dosing system	constant / proportional	proportional	proportional	
Stroke frequency adjustment			proportional to measurement value	
Stroke length adjustment	-	-	-	
Level control	•	•	•	
Standby input	•	•	•	
Flow sensor input	•	-	-	
Additional alarm relay	•	• (optional)	• (optional)	

Series TMS		5/20	15 /5	20/4	30/3	50/1	100 /0		
Dosing capacity	I/h / bar	5 / 20	15 / 5	20 / 4	30 / 3	50 / 1	100 / 0		
Stroke volume	ml/Stroke	0.55	2.1	2.8	4.2	7.0	14.0		
Stroke frequency	1/min	120							
PE hose	mm	4 x 6	6 x 8	6 x 8	8 x 12	8 x 12	12 x 18		
PVDF hose	mm	4 x 6	6 x 8	6 x 8	8 x 10	8 x 10	12 x 18		
Pump head/ Valve size	PVDF	L 3/8"	N 1/2"	N 1/2"	\$ 3/4"	\$ 3/4"	T 3/4"		
	Acrylic	B 3/8"	D 1/2"	D 1/2"	E 1/2"	E 1/2"	F 1/2"		
Dispatch weight	kg			5	.7				

^{*}The given dosing rates refer to H₂O measurements and the pressure indicated!



s TMS										
	Version									
MF	Multifunctio	n mo	de							
PH	Integrated	oH m	easur	eme	nt					
RH	Integrated of	chlori	ne me	easu	rement					
		Pun	np he	ad	Valve	Dosing	, capacity			
						l/h	bar			
	5/20 PV	Poly	vinyli	den i	fluoride(PVDF) PVDF	5	20			
	15/5 PV		"		PVDF	15	5			
	20/4 PV		"		PVDF	20	4			
	30/3 PV		"		PVDF	40	3			
	50/1 PV		"		PVDF	50	1			
	100/0 PV		"		PVDF	100	0			
	5/20 PS	Poly	vinyli	den i	fluoride(PVDF) PVDF + PVDF hose	e 5	20			
	15/5 PS		"	"	PVDF	15	5			
	20/4 PS		**	"	PVDF	20	4			
	30/3 PS		"	"	PVDF	30	3			
	50/1 PS		"	"	PVDF	50	1			
	100/0 PS		"	"	PVDF	100	0			
	5/20 AC	Acr	ylic / I	РММ	A PVDF	5	20			
	15/5 AC		"		PVDF	15	5			
	20/4 AC		**		PVDF	20	4			
	30/3 AC		"		PVDF	30	3			
	50/1 AC		"		PVDF	50	1			
	100/0 AC		"		PVDF	100	0			
			O-Rii	ng						
		V	FPM	(Vito	n®)					
		Е	EPDA	-	·					
				Elec	tric connection					
			0	230\	/AC, +/-10%, 50/60 Hz					
			1	115\	/AC, +/-10%, 50/60 Hz					
			1		AC, +/-10%, 50/60 Hz					
			1		DC, +/-10%					
			1		DC, +/-10%					
			<u> </u>							
				0	Plugs and leads Europe (Schuko)					
				1 Open end						
			L		Alarm relay (empty indica	ıtor)				
					0 Without relay	,				
					1 With switchover relay, norr	mally once	,			



Ī		colour	
	В	Blue	
	G	Grey	
		*other colours available on request	

TMS	RH	100/0 AC	٧	0	0	0	В	(example order)	

Your selection:

TA 4 C					
IMS					
17413					

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The following accessories are included in the scope of supply of TMS Series:

- Injection valve (PVDF) (except: 100 / 0)
- Foot valve with level switch to indicate empty (PVDF)
- Suction hose (PVC)
- Dosing hose (PVDF)
- Ventilation hose (PVC)



• (optional)

Solenoid diaphragm dosing pump Series TMSA

Capacity range 3.2 ... 35.0l/h, with self-ventilating pump head



General information

• Capacity range: 3.2 ... 35.0 l/h, Pressure range: 20 ... 1 bar

Pump head made of PVDF;
 Optional: Acrylic (PMMA)

Pumps available in different standard colours.
 Special colours available on request

• (optional)

Model	TMSA-MF	TMSA-PH	TMSA-RH	
Dosing	Multifunction mode (constant, pulse division, Pulse multiplication, pulse batch, ppm (mg/l), %, Batch, Volt, mA)	Integrated pH measurement 0.00 – 14.00 pH	Integrated Redox measurement 0 – 2000 mV	
Dosing system	constant / proportional	proportional	proportional	
Stroke frequency adjustment	proportional to input signal	proportional to measurement value	proportional to measurement value	
Stroke length adjustment	-	-	-	
Level Control	•	•	•	

•

Technical specifications

Standby input

Flow-sensor input

Additional alarm relay

Series TMSA		3.2/20	10/5	13/4	20 /3	35/1
Dosing capacity	I/h / bar	3.2 / 20	10 / 5	13 / 4	20 / 3	35 / 1
Stroke volume ml/Stroke		0.44	0,83	1.81	4.17	5.35
Stroke frequency	1/min			120		
PVC hose	mm	4 x 6	6 x 8	6 x 8	8 x 12	8 x 12
PVDF hose	mm	4 x 6	6 x 8	6 x 8	8 x 10	8 x 10
Pump head/	PVDF	LA 3/8"	NA 1/2"	NA 1/2"	SA 3/4"	TA 3/4"
Valve size	Acrylic	BA 3/8"	CA 3/8"	DA 1/2"	EA 1/2"	FA 1/2"
Dispatch weight	kg			5.7		

^{*}The given dosing rates refer to H₂O measurements and the pressure indicated!



Series TMSA										
	Version									
MF	Multifunction	on mod	le.							
PH	Integrated			men	t					
RH	Integrated					ment				
KH	imegratea	Pump			asorc	Valves	Do	sina c	capacity	
		Follik	neu	u		vaives	БО	sing c	Lupucily	
	3/20 PV	Polyv	invlid	en flu	Joride	e(PVDF) PVDF	3	3.2	20	
	10/5 PV	"		"		PVDF		10	5	
	13/4 PV	**		"		PVDF		13	4	
	20/3 PV	"		"		PVDF		20	3	
	35/1 PV	**		"		PVDF		35	1	
	33/17					FVDF	•	33	I	
	3/20 PS	Polyv	invlid	en flu	Joride	e(PVDF) PVDF + PV	/DF hose 3	3.2	20	
	10/5 PS	,,,		"		PVDF		10	5	
	13/4 PS	"		66		PVDF		13	4	
	20/3 PS	"		66		PVDF		20	3	
	-	"		"		PVDF		20 35		
	35/1 PS					FVDF	•	33	1	
	3/20 AC	Acryl	ic / P	ММА		ACDF	3	3.2	20	
	10/5 AC	,,				ACDF		10	5	
	13/4 AC	**				ACDF		13	4	
	20/3 AC	"				ACDF		20	3	
		"				ACDF		20 35	1	
	35/1 AC		○ B	·		ACDI	•	33	l	
		V	O-R	. ing 1 (Vita	n@)					
		E	EPD	-	ן יו וכ					
			1		tric c	onnection				
			0			+/-10%, 50/60 Hz				
			1	115	VAC,	+/-10%, 50/60 Hz				
			2			+/-10%, 50/60 Hz				
			3			+/-10%				
			4			+/-10%				
			<u> </u>			s and leads				
				0	Eurc	pe (Schuko)				
				1		en end				
						Alarm relay (emp	oty indicator)			
					0	Without relay				
					1	With switchover re	elay, normally	open		
						Colour				
						B Blue				
						G Grey				
						*other colou	rs available or	requ	uest	
-										
TMSA MF	35/1 PV	V	0	0	0	B (example or	der)			

Your selection:

		ection:				
ſ	TMSA					

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The following accessories are included in the scope of supply of TMSA Series:

- Injection valve PVDF
- Foot valve with level switch to indicate empty (PVDF)
- Suction hose (PVC)
- Dosing hose (PVDF)
- Ventilation hose (PVC)



Solenoid diaphragm dosing pump Series G Polymer

Capacity range 1 ... 25 I/h for viscous liquids up to 50,000 cps



General information

Capacity range: 1 ... 25 l/h,
Pressure range: 6 ... 0.5 bar
Pump head made of Acrylic (PMMA)

Pumps available in different standard colours.
 Special colours available on request.

Model	G Polymer
Dosing system	constant
Stroke frequency adjustment	0 100 %
Stroke length adjustment	-
Level Control	-
Digital signals	-
Current signal 0/4mA = 0 pulses 20mA = max. pulses	-
Pulse division	1:10
Pulse multiplication	-
Additional alarm relay	-

Series G Polymer		1/6	3/4	8/2	20/1	25/0,5	
Dosing capacity	I/h / bar	1/6	3 / 4	8/2	20 / 1	25 / 0,5	
Stroke volume	ml/Hub	0.14	0.42	1.11	2.78	3.47	
Stroke frequency	1/min			120			
Suction hose**	mm	20 x 27					
Pressure hose**	Pressure hose** mm		16 x 22	16 x 22	16 x 22	16 x 22	
Connection Intake side	Inch			1"			
Connection Pressure side	Inch	3/4"					
Pump head	Туре	BP	СР	DP	EP	FP	
Dispatch weight	kg			9			

^{*} The dosing rates specified are valid for a maximum viscosity of 50,000 cps. The operating pressure varies according to the viscosity!

^{**} PVC-fabric tube



Series G	Polyr	mer							
		Version	1						
	СО	Basic m	nodel wi	thout lev					
			Dosing						
			l/h	bar					
		1/6	1	6					
		3/4	3	4					
		8/2	8	2					
		20/1	20	1					
		25/0,5	25	0.5					
				O-Ring					
			V	FPM (V	iton®)				
					Electric	connec	tion		
				0	100-230)VAC, +/	/-10%, 50	/60 Hz	
						Plugs a	nd lead	3	
					0	Europe	(Schukc)	
					1	Open 6	end		
							Alarm r	elay (empty indicator)	
						0	Withou	t relay	
						1	With sw	ritchover relay, normally	
							open	Γ	
							_	Colour	
							В	Blue	
							G	Grey	
									T
GP-	СО	20/1	V	0	0	0	В	(example order)	
Your se	lection	າ:	T		T				
GP-									

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Solenoid diaphragm dosing pump Series GMSDigital Polymer

Capacity range 1 ... 25 l/h for viscous liquids up to 50,000 cps



General information

Capacity range: 1 ... 25 l/h,
Pressure range: 6 ... 0.5 bar
Pump head made of Acrylic (PMMA)

Pumps available in different standard colours.
 Special colours available on request.

Model	GMS-MF	GMS-PH	GMS-RH	
Dosing	Multifunction mode (constant, pulse division, Pulse multiplication, pulse batch, ppm (mg/l), %, Batch, Volt, mA)	Integrated pH measurement 0.00 – 14.00 pH	Integrated Redox measurement 0 – 2000 mV	
Dosing system	constant / proportional	proportional	proportional	
Stroke frequency adjustment	proportional to input signal	proportional to measurement value	proportional to measurement value	
Stroke length adjustment	-	-	-	
Level control	•	•	•	
Standby input	•	• (optional)	• (optional)	
Flow-sensor input	•	-	-	
Additional alarm relay	•	• (optional)	• (optional)	

Series GMS Polymer		1/6	3/4	8/2	20/1	25/0,5
Dosing capacity	I/h / bar	1/6	3 / 4	8/2	20 / 1	25 / 0,5
Stroke volume	ml/Stroke	0.14	0,42	1,11	2,78	3,47
Stroke frequency	1/min			120		
Suction hose**	mm	20 x 27				
Pressure hose**	mm	16 x 22				
Connection Intake side	inch			1"		
Connection Pressure side	inch			3/4"		
Pump head	Туре	BP	СР	DP	EP	FP
Dispatch weight	kg			9		

^{*} The dosing rates specified are valid for a maximum viscosity of 50,000 cps. The operating pressure varies according to the viscosity!

^{**} PVC-fabric tube



Series GMSD	IGITA	L Polyme	r						
		Version							
	MF	Multifun	ctior	n mode)				
	PH	integrat	ed p	H med	isurem	ent			
	RH	Integrat	edr F	Redox	(ORP)	measu	remen [.]	t	
			Dos	ing ca	pacity				
			ı	/h b	ar				
		1/6		1	6				
		3/4		3	4				
		8/2		8	2				
		20/1		20	1				
		25/0.5		25 ().5				
				O-Rin	g				
			٧		Viton®)			
					Electr	ic con	nectio	1	
				0	100-2	30VAC	, +/-10	%, 50/60 Hz	
						Plugs	and le	ads	
					0	Europ	e (Sch	uko)	
					1	Open	end		
							Alarm	relay (empty indicator)	
						0	Witho	ut relay	
						1	With s	witchover relay, normally open (no sur-	
						'	charg	ge for MF model)	
								Colour	
							В	Blue	
							G	Grey	
		1						,	
GMSDP-	MF	4	٧	0	0	0	В	(Example order)	

Your selection:

1001 selection	711.				
GMSDP-					

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Solenoid diaphragm dosing pump Series AMS

Capacity range 5 ... 60 l/h



General information

Capacity range: 5 ... 60 l/h,Pressure range: 25 ... 2 bar

Pump head made of PVDF;

Optional: Acrylic (PMMA) or stainless steel

Pumps available in different standard colours.

Special colours available on request.

 Version available for high-viscosity media up to 8000 CPS

Model	AMS CO	AMS CL	AMS PLUS
Dosing system	constant	constant	constant / proportional
Stroke frequency adjustment	0 100 %	0 100 %	0 100 %
Stroke length adjustment	•	•	•
Level Control	-	•	•
Digital signals	-	-	•
Current signal 0/4mA = 0 pulses 20mA = max. pulses	-	-	•
Pulse division	1:10	1:10	1:10 10:100 100:1000
Pulse multiplication	-	-	1:10
Additional alarm relay	-	-	• (optional)

Series AMS		5/25	10/15	20/7	40/3	60/2
Dosing capacity*	I/h / bar	5 / 25	10 / 15	20 / 7	40 / 3	60 / 2
Stroke volume	ml/Stroke	0.7	1.40	2.80	5.60	8.40
Stroke frequency	1/min			120		
PVC hose	mm	4 x 6	4 x 6	6 x 8	8 x 12	8 x 12
PVDF hose	mm	4 x 6	4 x 6	6 x 8	8 x 10	8 x 10
	PVDF	L 3/8"	M 3/8"	N 1/2"	\$ 3/4"	T 3/4"
Pump head/ Valve size	Stainless steel	Li 3/8"	Mi 3/8"	Ni 1/2"	Si 1/2"	Ti 1/2"
	Acrylic	B 3/8"	C 3/8"	D 1/2"	E 1/2"	F 1/2"
Up to 8000 CPS	Acrylic **	B-LPV	C-LPV	-	-	-
Dispatch weight	kg			9.0		

^{*}The given dosing rates refer to H₂O measurements and the pressure indicated!



AMS							
	Version						
CO	Basic mode	el without level contro	ol				
CL	With level of	control					
PLUS	With signal	input and level contr	ol				
		Pump head	Valves		Dosing	capacity	
					l/h	bar	
	5/25 PV	Polyvinyliden fluorid			5	25	
	10/15 PV	"	PVDF		10	15	
	20/7 PV	"	PVDF		20	7	
	40/3 PV	"	PVDF		40	3	
	60/2 PV	"	PVDF		60	2	
	5/25 PS	Polyvinyliden fluorid	le(PVDF) PVDF+P	VDF hose	5	25	
	10/15 PS	11 11	PVDF		10	15	
	20/7 PS	"	PVDF		20	7	
	40/3 PS	"	PVDF		40	3	
	60/2 PS		PVDF		60	2	
	5/25 AC	Acrylic / PMMA	PVDF		5	25	
	10/15 AC	**	PVDF		10	15	
	20/7 AC	**	PVDF		20	7	
	40/3 AC	"	PVDF		40	3	
	60/2 AC	44	PVDF		60	2	
	5/25 SS	Stainless Steel AISI 3	16 Stainless	Steel AISI	316 5	25	
	10/15 SS	" "	"	"	10	15	
	20/7 SS	" "	"	"	20	7	
	40/3 SS	" "	"	"	40	3	
	60/2 SS	11 11	ii .	"	60	2	
	5/25 LP	Acrylic for viscous n	nedia PP		5	25	
	10/15 LP		PP		10	15	
		O-Ring					
		V FPM (Viton®)					
		E EPDM					
		Electric co	onnection				
		0 230VAC,	+/-10%, 50/60 Hz				
		1 115VAC,	+/-10%, 50/60 Hz				
		2 48 VAC, +	-/-10%, 50/60 Hz				
		3 12 VDC, +	-/-10%				
		4 24 VDC, +	-/-10%				



	Plug	s and	d leads							
0	Euro	pe (S	Schuko)							
1	Оре	en en								
	Alarm relay (empty indicator)									
	0									
	1	With	switchover relay, normally open							
			Colour							
		В	Blue							
		Grey								
			*other colours available on request							

AMS	PLUS	10/15 PV	V	0	0	0	В	(example order)		
Your selection										
AMS	<u> </u>									

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The following accessories are included in the scope of supply of AMS Series:

- Injection valve PVDF
- Foot valve with level switch to indicate empty (Version AMS-CO: Foot valve without empty indicator)
- Suction hose PVC
- Dosing hose PVDF
- Ventilation hose (PVC)

^{**} Hose connection of pump head Acrylic up to 8000 CPS: 16x22 PVC suction hose, 8x12 PE pressure hose. Foot valve made of stainless steel not included in the scope of supply.



Solenoid diaphragm dosing pump Series AMSA

Capacity range 3.2 - 38.5 l/h, with self-ventilating pump head



General information

• Capacity range: 3.2 ... 38.5 l/h, Pressure range: 25 ... 2 bar

- Pump head made of PVDF; option of Acrylic (PMMA)
- Pumps available in different standard colours.
 Special colours available on request

Model	AMSA CO	AMSA CL	AMSA PLUS		
Dosing system	constant	constant	constant / proportional		
Stroke frequency adjust- ment	0 100 %	0 100 %	0 100 %		
Stroke length adjustment	•	•	•		
Level control	-	•	•		
Digital signals	-	-	•		
Current Signal 0/4mA = 0 pulses 20mA = max. pulses	-	-	•		
Pulse division	1:10	1:10	1:10 10:100 100:1000		
Pulse multiplication	-	-	1:10		
Additional alarm relay	-	-	• (optional)		

Series AMSA		3.2/25	6/15	13/7	30 /3	38.5/2
Dosing capacity	I/h / bar	3.2 / 25	6 / 15	13 / 7	30 / 3	38.5 / 2
Stroke volume	ml/Stroke	0.44	0,83	1.81	4.17	5.35
Stroke frequency	1/min			120		
PVC hose	mm	4 x 6	4 x 6	6 x 8	8 x 12	8 x 12
PVDF hose	mm	4 x 6	4 x 6	6 x 8	8 x 10	8 x 10
Pump head /	PVDF	LA 3/8"	MA 3/8"	NA 1/2"	SA 3/4"	TA 3/4"
Valve size	Acrylic	BA 3/8"	CA 3/8"	DA 1/2"	EA, 1/2"	FA 1/2"
Dispatch weight	kg			9.0		

^{*}The listed dosing rates refer to H₂O measurements and the pressure indicated!



CO CL PLUS	Version Basic mode									
CL		el witho	out le	vel co	ontro	1				
	With level c					•				
	With signal		and le	vel c	ontro	nl .				
1 200	TTIII SIGIIGI	Dosie			,011110	<i>-</i> 1	Ventile	Dosier	rleistung	
			•							
	3/25 PV	Polyv	inylid	en flu	oride	e (PV	DF) PVDF	3.2	25	
	6/15 PV	44		"			PVDF	6	15	
	13/7 PV	44		"			PVDF	13	7	
	30/3 PV	44		"			PVDF	30	3	
	38/2 PV	64		"			PVDF	38.5	2	
	3/25 PS	Polyv	inylid	en flu	Joride	e (PV	DF) PVDF + PVDI	F hose 3.2	25	
	6/15 PS	, · ·		"		•	PVDF	6	15	
	13/7 PS	44		"			PVDF	13	7	
	30/3 PS	41		"			PVDF	30	3	
	38/2 PS	"		"			PVDF	38.5	2	
	3/25 AC	Acryl	ic / P	ММА			PVDF	3.2	25	
	6/15 AC	7 (0.7)		, , , , , ,	•		PVDF	6	15	
	13/7 AC	61					PVDF	13	7	
	30/3 AC	44					PVDF	30	3	
	38/2 AC	41					PVDF	38.5	2	
	30/2 / C		O-R	ina			1 4 01	50.5	2	
		V		. iiiy 1 (Vita	n®1					
		E	EPD	-	ן ייוול					
			Цυ		noot	ion t	the electric sup	anly		
			0				0%, 50/60 Hz	opiy		
			1				0%, 50/60 Hz			
			2				0%, 50/60 Hz			
			3			+/-10 +/-10				
					1		d leads			
				0	_		Schuko)			
				1		en er				
							m relay (empty	indicator)		
					0	With	nout relay			
					1	With	n switchover rela	y, normally ope	en	
							Colour			
						В	Blue			
						G	Grey			
							*other colours	on request		
A PLUS	38/2 PS	V	0	0	0	В	(example orde	r)		
		•					,	,		
election:										

 AMSA
 Use a registered trademark of DuPont Elastomers



Scope of Supply

The following accessories are included in the scope of supply of AMSA Series

- Injection valve PVDF
- Foot valve with level switch to indicate empty (PVDF) (Version AMSA-CO: foot valve without empty indicator)
- Suction hose PVC
- Dosing hose PVDF
- Ventilation hose (PVC)



Solenoid diaphragm dosing pump Series AMSDigital

Capacity range 5 ... 60 l/h



General information

• Capacity range: 5 ... 60 l/h, Pressure range: 25 ... 2 bar

 Pump head made of PVDF; Acrylic (PMMA) or stainless steel

Pumps available in different standard colours.
 Special colours available on request

 Version available for high-viscosity media up to 8000 CPS

Model	AMSAD-MF	AMSAD-PH	AMSAD-RH		
Dosing	Multifunction mode (constant, pulse division, Pulse multiplication, pulse batch, ppm (mg/I), %, Batch, Volt, mA)	Integrated pH measurement 0.00 – 14.00 pH	Integrated Redox measurement 0 – 2000 mV		
Dosing system	constant / proportional	proportional	proportional		
Stroke frequency adjustment	proportional to input signal	proportional to measurement value	proportional to measurement value		
Stroke length adjustment	•	•	•		
Level control	•	•	•		
Standby input	•	• (optional)	• (optional)		
Flow-sensor input	•	-	-		
Additional alarm relay	•	• (optional)	• (optional)		

Series AASDinited	10113	E /0E	10/15	20./7	40./2	10/0
Series AMSDigital		5/25	10/15	20/7	40/3	60/2
Dosing capacity	I/h / bar	5 / 25	10 / 15	20 / 7	40 / 3	60 / 2
Stroke volume	ml/stroke	0.7	1.40	2.80	5.60	8.40
Stroke frequency	per min			120		
PVC hose	mm	4 x 6	4 x 6	6 x 8	8 x 12	8 x 12
PVDF hose	mm	4 x 6	4 x 6	6 x 8	8 x 10	8 x 10
Connection		3/	8"	1/2"	3/4"	
	PVDF	L 3/8''	M 3/8"	N 1/2"	\$ 3/4''	T 3/4"
Pump head/ Valve size	Stainless steel	Li 3/8''	Mi 3/8''	Ni 1/2''	Si 1/2''	Ti 1/2''
	Acrylic	B 3/8"	C 3/8"	D 1/2"	E 1/2"	F 1/2"
up to 8000 CPS	Acrylic	B LPV	C LPV	-	-	-
Dispatch weight	kg			9.0		

^{*}The given dosing capacitiess refer to H₂O dosages at the pressure indicated!



AMSDi	gital								
	Version								
MF	Multifunction	mode							
PH	Integrated ph	l meas	ureme	nt: pH 0 - 14					
RH	Integrated red	dox me	easure	ment: 0 - 1,000 m	٦V				
		Pun	np hea	d	Valves		Dosing	capacity	
							l/h	bar	
	5/25 PV	Poly	vinylid	en fluoride (PVD	F) PVDF		5	25	
	10/15 PV		"		PVDF		10	15	
	20/7 PV		"		PVDF		20	7	
	40/3 PV		"		PVDF		40	3	
	60/2 PV		"		PVDF		60	2	
	5/25 PS	Poly	vinylid	en fluoride (PVD	F) PVDF + f	PVDF hose	5	25	
	10/15 PS		"	"	PVDF		10	15	
	20/7 PS		"	"	PVDF		20	7	
	40/3 PS		"	"	PVDF		40	3	
	60/2 PS		"	"	PVDF		60	2	
	5/25 AC	Acr	ylic / P	MMA	PVDF		5	25	
	10/15 AC		"		PVDF		10	15	
	20/7 AC		"		PVDF		20	7	
	40/3 AC		"		PVDF		40	3	
	60/2 AC		"		PVDF		60	2	
	5/25 SS	Stai	nless st	eel AISI 316	Stainless stee		316 5	25	
	10/15 SS		"	"	"	"	10	15	
	20/7 SS		"	"	"	"	20	7	
	40/3 SS		"	"	"	"	40	3	
	60/2 SS		"	"	"	"	60	2	
	5/25 LP	Acr	ylic for	viscous media	PP		5	25	
	10/15 LP		"	11	PP		10	15	
			O-rin	g:					
		٧	FPM (Viton®)					
		Е	EPD <i>N</i>	١					
			l l	Electric connecti	on				
			0 2	230 VAC, +/-10%	, 50/60 Hz				
			1	115 VAC, +/-10%	, 50/60 Hz				
			2	48 VAC, +/-10%,	50/60 Hz				
			3	12 VDC, +/-10%					
			4	24 VDC, +/-10%					



	Plug	s and	d leads						
0	Euro								
1	Оре								
	Alarm relay (empty indicator)								
	0								
	1	with	switchover relay, normally open						
			Colour:						
		В	Blue						
		G	Grey						
			*other colours available on request						

Į	AMSD MF	10/15 P	S V	0	U	O	В	(example order)	
	Voursalaatia								
	Your selectio	n							

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The following accessories are included in the scope of delivery for the AMSDigital series:

- Injection valve made of PVDF

AMSD

- Foot valve with level switch to indicate empty made of PVDF
- Suction hose PVC
- Dosing hose PVDF
- Ventilation hose (PVC)



Solenoid diaphragm dosing pump Series AMSADigital

Capacity range 3.2 ... 38.5 l/h, with self-ventilating pump head



General information

• Capacity range: 3.2 ... 38.5 I/h Pressure range: 25 ... 2 bar

- Pump head made of PVDF; option of Acrylic (PMMA)
- Pumps available in different standard colours.
 Special colours available on request

Model	AMSAD-MF	AMSAD-PH	AMSAD-RH		
Dosing	Multifunction mode (constant, pulse division, Pulse multiplication, pulse batch, ppm (mg/l), %, Batch, Volt, mA)	Integrated pH measurement 0.00 – 14.00 pH	Integrated Redox measurement 0 – 2000 mV		
Dosing system	constant / proportional	proportional	proportional		
Stroke frequency adjustment	proportional to input signal	proportional to measurement value	proportional to measurement value		
Stroke length adjustment	•	•	•		
Level control	•	•	•		
Standby input	•	• (optional)	• (optional)		
Flow-sensor input	•	-	-		
Additional alarm relay	•	• (optional)	• (optional)		

Series AMSADigital		3.2/25	6/15	13/7	30 /3	38.5/2	
Dosing Capacity	Dosing Capacity I/h / bar		6 / 15	13 / 7	30 / 3	38.5 / 2	
Stroke volume	ml/stroke	0.44	0.83	1.81	4.17	5.35	
Stroke frequency	per min			120			
PVC hose	mm	4 x 6	4 x 6	6 x 8	8 x 12	8 x 12	
PVDF hose	mm	4 x 6	4 x 6	6 x 8	8 x 10	8 x 10	
Connection		3/	8"	1/2"	3/4"		
Pump head	PVDF	LA	MA	NA	SA	TA	
	Acrylic	BA	CA	DA	EA	PO	
Dispatch weight	kg			9.0			

^{*}The given dosing capacities refer to H₂O dosages at the pressure indicated!



ies AM	SADiç	gital										
		Version										
	MF	Multifunction	n mod	le								
	PH	Integrated p	H me	asure	ment	t: pH	0 14					
	RH	Integrated re						00 mV				
_			Pur	np he	ad			Valves		Dosing	Capacity	
		3/25 PV	Pol	vvinvl	iden [.]	fluori	de(PVD	F) PVDF		3.2	25	
		6/15 PV		"	"			PVDF		6	15	
		13/7 PV		44	"			PVDF		13	7	
		30/3 PV		"	"			PVDF		30	3	
		38/2 PV		"	"			PVDF		38.5	2	
		0.405.00	D. I			n	.l. (D) (D	E) D) (DE : D) (D	NF 1	2.0	0.5	
		3/25 PS	POI	yvinyi "	iaen '	TIUOTI	de(PVD	F) PVDF + PVD	or nose	3.2	25	
		6/15 PS						PVDF		6	15	
		13/7 PS		"	"			PVDF		13	7	
		30/3 PS		"	"			PVDF		30	3	
		38/2 PS		"	"			PVDF		38.5	2	
		3/25 AC	Acı	ylic /	РММ	ΙA		PVDF		3.2	25	
		6/15 AC		44				PVDF		6	15	
		13/7 AC		"				PVDF		13	7	
		30/3 AC		44				PVDF		30	3	
		38/2 AC		"				PVDF		38.5	2	
		,		O-ri	na							
			V		۱ (Vito	n®)						
			E	EPD		,						
			L		Elec	tric c	onnec	ion				
				0	230	VAC	+/-109	6, 50/60 Hz				
				1	115	VAC	+/-109	6, 50/60 Hz				
				2	48 V	AC,	+/-10%,	50/60 Hz				
				3			+/-10%					
				4			+/-10%					
						Plug	s and I	eads				
					0	Euro	pe (Sc	nuko)				
					1	Оре	en end					
								relay (empty i	indicator))		
						0		ıt relay				
						1		vitchover relay	, normall	y open		
								olour				
							ВВ	lue				
							GG	Grey				
							*(other colours a	vailable	on requ	est	
NSAD	MF	38/2 PS	V	0	0	0	B (6	example order)			

Your sele	ction					
AMSAD						

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The following accessories are included in the scope of delivery for the AMSADigital series

- Injection valve made of PVDF
- Foot valve with level switch to indicate empty (PVDF)
- Suction hose PVC
- Dosing hose PVC
- Ventilation hose PVC



Solenoid diaphragm dosing pump Series CMS Polymer

Capacity range 2 ... 40 I/h for viscous liquids up to 50,000 cps



General information

Capacity range: 2 ... 40 l/h,
Pressure range: 8 ... 1 bar
Pump head made of Acrylic

Pumps available in different standard colours.
 Special colours available on enquiry



Model	CMSP CO	CMSP PLUS
Dosing system	constant	constant / proportional
Stroke frequency adjustment	0 100 %	0 100 %
Stroke length adjustment	•	•
Level control	-	•
Digital signals	-	•
Current signal 0/4mA = 0 pulses 20mA = max. pulses	-	•
Pulse division	1:10	1:10 10:100 100:1000
Pulse multiplication	-	1:10
Additional alarm relay	-	• (optional)

Series CMS Polymer		2/8	4/6	10/4	25/2	40/1		
Dosing capacity	I/h / bar	2/8	4/6	10 / 4	25 / 2	40 / 1		
Stroke volume	ml/stroke	0.28	0.56	1.4	3.5	5.6		
Stroke frequency	per min			120				
Suction hose**	mm	20 x 27	20 x 27	20 x 27	20 x 27	20 x 27		
Pressure hose**	mm	16 x 22	16 x 22	16 x 22	16 x 22	16 x 22		
Connection suction side	inch			1"				
Connection pressure side	inch			3/4"				
Pump head	Туре	BP CP DP EP FP						
Dispatch weight	kg			9				

- * The Dosing capacities specified are valid for a maximum viscosity of 50,000 cps. The operating pressure varies according to the viscosity!
- ** PVC-fabric tube



Series C	MSPol	ymer							
		Version	1						
	СО	Basic m	nodel wi						
	PLUS	With sig	gnal inpu						
			Dosing						
			l/h	bar					
		2/8	2	8					
		4/6	4	6					
		10/4	10	4					
		25/2	25	2					
		40/1	40	1					
				O-ring					
			V	FPM (V	1				
						connec			
				0) VAC, +			
				1		C, +/-10%		l z	
				2		C, +/-10%			
				3	24 VDC	C, +/-10%			
						_	nd lead		
					0		(Schuke	p)	
					1	Open 6	1		
								elay (empty indicator)	
						0	withou		
						1	open	itchover relay, normally	
								Colour	
							В	Blue	
							G	Grey	
CMSP	PVM	10/4	V	0	0	0	В	(example order)	
								,	

Your sel	ection	1					
CMSP							

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Solenoid diaphragm dosing pump Series CMSDigital Polymer

Capacity range 2 ... 40 I/h for viscous liquids up to 50,000 cps





General information

Capacity range: 2 ... 40 l/h,
 Pressure range: 1 ... 8 bar

- Stroke length adjustment continuous from 0 ... 100%
- Display (backlit) and keyboard for adjusting the operating parameters
- Start/stop button
- Switches between external actuation/continuous operation
- Switchover to pulse division/pulse multiplication
- External actuator for proportional dosing via a floating potential contact
- External actuation for proportional dosing via an analogue input 0/4-20 mA, 0-10 V
- Option of version with integrated pH or redox controller for proportional dosing
- Pump head made of Acrylic
- Pumps available in different standard colours.
 Special colours available on enquiry

Series CMSD Polymer		2/8	4/6	10/4	25/2	40 /1
Dosing capacity	I/h / bar	2/8	4/6	10 / 4	25 / 2	40 /1
Stroke volume	ml/Stroke	0.28	0.56	1.4	3.5	5.6
Stroke frequency	per min			120		
Suction hose**	mm	20 x 27				
Pressure hose**	mm	16 x 22				
Connection suction side	inch			1"		
Connection pressure side	inch			3/4"		
Pump head	Туре	BP	СР	DP	EP	FP
Dispatch weight	kg			9		

^{*} The dosing rates specified are valid for a maximum viscosity of 50,000 cps. The operating pressure varies according to the viscosity!

^{**} PVC-fabric tube



Series CMSE	OIGITA	L Poly	mer					
	MF PH RH	Digit Anal Integ (pH o	stant, al inp logue gratec electr gratec	g, pulse division, pulse multiplication and-by, flow monitor r 0 - 10 V, alarm relay (empty signal) 4 must be ordered separately) 000 mV es must be ordered separately)				
		li Ca			pacity		233011	es most be ordered separately)
				_	ar			
		2		2	8			
		4		4	6			
		10	1	0	4			
		25		25	2			
		40	4	10	1			
			.,	O-rir	_	.		
			V .		(Vitor	l [®])		
			E	EPD1	1	ti	- I- I	he electric supply
				0				/-10%, 50/60 Hz
				1				, 50/60 Hz
				2		DC, +/		
				3	24 V	DC, +/	′-10%	
						Plug	and	leads
					0	Euro	oa (Sa	chuko)
					1	Ope	n enc	
								rm relay (signal for empty)
						0		nout relay
						1		n switchover relay, normally open n version MF no extra charge
								Colour:
							В	Blue
							G	Grey
CMSDP	MF	4	V	0	0	0	В	(example order)

CMSDP Viton® is a registered trademark of DuPont Dow Elastomers

Your selection



Peristaltic pump Series DOSAFlex

Capacity range 2 ... 10 l/h



General information

- Pump with direct coupled stepper motor <35 dB
- mA mode, 4 20 mA or 20 4 mA
- 2 different ranges of capacity range available
- LCD display, 16x2
- Manual mode, Ton/Toff, delay, signal
- ppm mode
- Batch mode
- 1:N or N:1 mode
- Optional for 10 l/h:

Technical data

TCCTTTICCT COTO		
Type DOSAFlex		
Dosing capacity*	l/h /	0,002 to 2,000, steplessly adjustable / 3,0
2 com 1g cap acmy	bar	0,010 to 10,000, steplessly adjustable / 2,0
Suction height	m	15
Pump-hose	mm	DOSAExtra 3 x 8 for dosing capacity 0,002 to 2,0
1 omp-nose	mm	DOSAMed, 6 x 10 for dosing capacity 0,01 to 10,0
Connection		Union fitting, 4 x 6 mm
Devices events	VAC /	110 240 / 50 / 0
Power supply	Hz	110 – 240 / 50 - 60
Consumption	W	20
Fuse	А	1,6
Scope of delivery		Without connecting components
Enclosure		PP, protection IP 65
Dimensions (HxWxD)	mm	210 x 118 x 143
Shipping weight	kg	2,2

^{*} The listed dosing rates refer to H₂O measurements at the pressure indicated!

Scope of supply

Optional: the following installation kit is available for DOSAFlex:

Dosing valve from PVDF

Suction hose PVC 4x6 mm

Foot valve from PVDF Delivery hosee PE 4x6 mm



Serie DOSA	lex											
		Dosir	osing capacity									
	2/3	0,002	- 2,0	000 I/h /3 bar								
	10/2	0,010	-10,C	000 l/h	1/2 b	ar						
			Pum	p hos	e as	spare	part					
		0	With	out								
		Е	DOS	AExtr	a 2 I/I	า						
		М	DOS	AMed	d 10 l,	/h						
				Pow	er sup	ply						
			0	110	to 240	VAC	C, 50 to 60 Hz					
					Inst	ıllatio	ns-Kit*					
				0	Without							
				V	FPM	(Vito	n®)					
				Е	EPD	M						
						Plug	s and leads					
					0	Euro	ppe (Schuko)					
					1	With	nout					
							Colour					
						В	Blue					
DOSAFlex	2/3	0	0	٧	1	В	(example order)					
	•											
Your selection	on											
DOSAFlex								€				

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* consisting of: Dosing valve IVN 1/2", 4x6 mm,PVDF

Foot valve type Axial 1/2" with filter a. weight, 4x6 mm, PVDF

Suction hose PVC, 4x6 mm Dosing hose PE, 4x6 mm



Peristaltic pump Series VPESR Capacity range 2 l/h



General information

Capacity range: 2 l/h,
 Pressure range: 0.5 bar

Thermoplastic hose

230 VAC
 Self-priming

Pumps available in different standard colors.
 Special colors available on request.

Technical specifications

Series VPESR		
Dosing capacity*	I/h / bar	2.00 / 0.5
Stroke volume	ml/stroke	0.09
PVC hose	mm	4 x 6
Dispatch weight	kg	0.65

^{*}The listed dosing rates refer to H₂O measurements at the pressure indicated!

Scope of supply:

The following accessories are included in the scope of supply for the V series

- Injection valve made of PVDF Foot valve made of PVDF

- Intake hose PVC Dosing hose PVC



VPSER

Series VPE	SR							
		Dosing	capa	city				
		l/h	bar					
	2/0	2	0					
			Dosi	ng an	d into	ike h	ose	
		PVC	Dosi	ng ho	se / ir	ntake	hose Polyvinyl chloride (PVC)	
				O-Ri	ng (a	ccess	sory)	
			٧	FPM	(Vitor	า [®])		
			Е	EPD/	М			
					Elec	trical	connection:	
				0	230 \	VAC,	+/-15%	
						Plug	s and leads	
					0	Euro	pe (Schuko)	
					1	with	out plug	
							Color	
						В	Blue	
						G	Grey	
							*other colors available on request	
VPESR	2/0	PVC	٧	0	0	В	(example order)	
Your selec	tion							

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Motor driven pump Series DOSAMac FM 50 Capacity range 4.5 - 47 l/h



General performance characteristics

Capacity range: 4.5 - 47 I/h Pressure range: 10 - 5 bar

• Stroke adjustment continuous from 0 - 100%

• Power supply: 230 V or 400 V, 50/60 Hz

Dosing head and valve material options:

- PP, PVC, PVDF or stainless steel SS 316

• Valve ball material options:

- Pyrex® or stainless steel SS 316

Diaphragm made of PTFE

Max. temperatures of dosing media:

- PP and PVC: 40°C

- Stainless steel SS 316: 60°C

Actuator (option):

All pumps can be fitted with a frequency converter actuate with a 4 - 20 mA signal.

Versions

Series-FM 50	Pump head	Diaphragm	Valve balls	Valve seating
11	SS 316	PTFE/NBR	SS 316	SS 316
12	PP	PTFE/NBR	PYREX®	PP
13	PVC	PTFE/NBR	PYREX®	PVC
13	PVC	PTFE/NBR	SS 316	PVC
23	PVDF	PTFE/NBR	PYREX®	PVDF

Series FM-50 30		4,5/10	7,0/10	9,5/10	14,0/10
Capacity rate*	l/h	4.5	7.0	9.5	14.0
Pressure, max.	bar	10	10	10	10
Stroke volume	ml/stroke	1.83	2.01	1.93	2.01
Stroke frequency	per min	41	58	82	116
Connection	inch	1/2	1/2	1/2	1/2
Diaphragm	Ømm	30	30	30	30
Motor power rating	kW	0.09	0.09	0.09	0.09
Dispatch weight PP, PVC, PVDF	kg	4.5	4.5	4.5	4.5
SS 316		5.5	5.5	5.5	5.5



Technical specifications

Series FM-50 50		17/5	23/5	34/5	47/5
Capacity rate*	l/h	17	23	34	47
Pressure, max.	bar	5	5	5	5
Stroke volume	ml/stroke	6.91	6.61	6.91	6.75
Stroke frequency	per min	41	58	82	116
Connection	inch	1/2	1/2	1/2	1/2
Diaphragm	Ø mm	50	50	50	50
Motor power rating	kW	0.09	0.09	0.09	0.09
Dispatch weight PP, PVC, PVDF SS 316	kg	4.5 5.5	4.5 5.5	4.5 5.5	4.5 5.5

Order code

Claci coac							•
Series FM-50 30							
_		Dosir	ng capacity	/			
		l/h	bar				
	4.5	4.5	10				
	7.0	7.0	10				
	9.5	9.0	10				
	14.0	14.0	10				
			Pump hec	ıd	Valve balls	Valve seating	
		11	SS 316		SS 316	SS 316	
		12	PP		Pyrex [®]	PP	
		13	PVC		Pyrex [®]	PVC	
		16	PVC		SS 316®	PVC	
		23	PVDF		Pyrex [®]	PVDF	
				O-rir	ng:		
			V	FPM	(Viton®)		
			Е	EPD/	Μ		
					Connection to the	e electric supply	
				0	Tri-phase 400-440° 0.09 kW	VAC, 50/60 Hz**,	
				1	Monophase 230V	'AC, 50 Hz, 0,09 kW	
				2	Monophase 240V	'AC, 50 Hz, 0,09 kW	
				1	Tri-phase 400-440° 0.09 kW Monophase 230V	VAC, 50/60 Hz**, 'AC, 50 Hz, 0,09 kW	

FM-50 30 4,5 -	11	٧	0	(example order)	
----------------	----	---	---	-----------------	--

Your selection

FM-50 30			



FM-50 50

		Dosir	ng cap	acity			
		l/h	b	ar			
	17	17	,	5			
	23	23		5			
	34	34	,	5	with Version 12, 13 a	nd 16 only extra charge	
	47	47		5	with Version 12, 13 a	nd 16 only extra charge	
•			Pump	head	Valve balls	Valve seating	
		11	SS 31	6	SS 316	SS 316	
		12	PP		Pyrex [®]	PP	
		13	PVC		Pyrex [®]	PVC	
		16	PVC		Pyrex [®]	SS 316	
		23	PVDF		Pyrex [®]	PVDF	
				O-rin	g:		
			V	FPM	(Viton®)		
			Е	EPD <i>N</i>	1		
					Connection to the ele	ctric supply	
				0	Tri-phase 400-440VAC	, 50/60 Hz**, 0.09 kW	
				1	Monophase 230VAC,	50 Hz, 0,09 kW	
				2	Monophase 240VAC,	50 Hz, 0,09 kW	
M-50 50	47 –	23	٧	1	(example order)		

^{*}The listed dosing rates refer to H₂O dosages at the pressure indicated!

^{**}Specify 60 Hz mains frequency separately when ordering!! Different pump delivery output! Viton® is a registered trademark of DuPont Dow Elastomers
Pyrex® is a registered trademark of Corning Incorporated.



Motor driven pump Series DOSAMac D-50

Capacity range 4.0 - 49 I/h



General performance characteristics

Capacity range: 4.0 - 49 I/h
 Pressure range: 14 - 10 bar

- Stroke adjustment continuous from 0 100%
- Electrical voltage supply: 230 V or 400 V, 50/60 Hz
- Dosing head and valve material options:
 PP, PVC, PVDF or stainless steel SS 316
- Valve ball material options:
 - Pyrex® or stainless steel SS 316
- Diaphragm made of PTFE
- Max. temperatures of dosing media:
 - PP and PVC: 40°C
 - Stainless steel SS 316: 60°C
- Actuator (option):

All pumps can be fitted with a frequency converter actuate with a 4 - 20 mA signal.

Versions

Series D-50	Pump head	Diaphragm	Valve balls	Valve seating
11	SS 316	PTFE/NBR	SS 316	SS 316
12	PP	PTFE/NBR	PYREX®	PP
13	PVC	PTFE/NBR	PYREX®	PVC
16	PVC	PTFE/NBR	SS 316	PVC
23	PVDF	PTFE/NBR	PYREX®	PVDF

Series D-50 30		4.0/10	7.0/10	11.5/10	14.0/10
Capacity rate*	l/h	4.0	7.0	115	14,0
Pressure, max.	bar	10 (Version 11/14 bar)	10 (Version 11/14 bar)	10 (Version 11/14 bar)	10 (Version 11/14 bar)
Stroke volume	ml/stroke	1.90	2.01	2.00	2,01
Stroke frequency	per min	35	58	96	116
Connection	inch	1/2	1/2	1/2	1/2
Diaphragm	Ømm	30	30	30	30
Motor power rating	kW	0.18	0.18	0.18	0,18
Dispatch weight PP, PVC, PVDF SS 316	kg	8.0 11.0	8.0 11.0	8.0 11.0	8,0 11,0



Technical specifications

Series D-50 50		14/10	24/10	41/10	49/10
Capacity rate*	l/h	14	24	41	49
Pressure, max.	bar	10	10	10	10
Stroke volume	ml/stroke	6.67	6.90	7.12	7.04
Stroke frequency	per min	35	58	96	116
Connection	inch	1/2	1/2	1/2	1/2
Diaphragm	Ø mm	50	50	50	50
Motor power rating	kW	0.18	0.18	0.18	0.18
Dispatch weight PP, PVC, PVDF SS 316	kg	8.0 12.0	8.0 12.0	8.0 12.0	8.0 12.0

Order code

Series D-50 30							
		Dosir	ng cap	acity			
		l/h	b	ar			
	4,0	4,0	1	0			
	7,0	7,0	1	0			
	11,5	11,5	1	0			
	14,0	14,0		0			
			1	head	Valve balls	Valve seating	
		11	SS 31		SS 316	SS 316	
		12	PP		Pyrex [®]	PP	
		13	PVC		Pyrex [®]	PVC	
		16	PVC		SS 316	PVC	
		23	PVDF	:	Pyrex [®]	PVDF	
		20	1 4 01	O-ring		1 401	
			V	,	Viton®)		
			Е	EPD <i>M</i>	1		
					Electric connection		
				0	Tri-phase 400-440VAC	:, 50/60 Hz**, 0,18 kW	
				1	Monophase 230VAC,	50 Hz, 0,18 kW	
				2	Monophase 240VAC,	50 Hz, 0,18 kW	
				3	Tri-phase 230/440VAC Exd IIBT4	C, 50 Hz**, 0,18 kW,	

	D-50 30	4.0	11	٧	0	(example order)	
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Your selection

·		 	· · · · · · · · · · · · · · · · · · ·	i
D-50 30				i
D-30 30				i



Series D-50 50							
		Dosir	ng cap	acity			
		l/h	b	ar			
	14	14	10	C			
	24	23	10	C			
	41	34	10	C			
	49	47	10)			
			Pump	head	Valve balls	Valve seating	
		11	SS 31	6	SS 316	SS 316	
		12	PP		Pyrex [®]	PP	
		13	PVC		Pyrex®	PVC	
		16	PVC		SS 316	PVC	
		23	PVDF		Pyrex®	PVDF	
				O-rin	g:		
			V	FPM ((Viton®)		
			Е	EPD <i>N</i>	1		
					Electric connection		
				0	Tri-phase 400-440VAC,	, 50/60 Hz**, 0,18 kW	
				1	Monophase 230VAC,	50 Hz, 0,18 kW	
				2	Monophase 240VAC,	50 Hz, 0,18 kW	
				3	Tri-phase 230/440VAC Exd IIBT4	, 50 Hz**, 0,18 kW,	
D-50 50	49	23	٧	1	(example order)		
Your selection							
D-50 50							

^{*}The listed dosing rates refer to H₂O dosages at the pressure indicated!

^{**}Specify 60 Hz mains frequency separately when ordering!! Different pump delivery output! Viton® is a registered trademark of DuPont Dow Elastomers

Pyrex® is a registered trademark of Corning Incorporated.



Motor driven pump Series DOSAMac D-100

Capacity range 45 ... 374 l/h



General performance characteristics

• Capacity range: 45 ... 374 l/h Pressure range: 5 ... 1.5 bar

- Stroke adjustment continuous from 0 ... 100%
- Power supply: 230 V or 400 V, 50/60 Hz
- Dosing head and valve material options:
 - PP, PVC, PVDF or stainless steel SS 316
- Valve ball material options:
 - Pyrex® or stainless steel SS 316
- Diaphragm made of PTFE
- Max. temperatures of dosing media:

- PP and PVC: 40°C

- Stainless steel SS 316: 60°C

Actuator (option):

All pumps can be fitted with a frequency converter actuate with a 4 ... 20 mA signal.

Versions

Series D-100	Pump head	Diaphragm	Valve balls	Valve seating
11	SS 316	PTFE/NBR	SS 316	SS 316
12	PP	PTFE/NBR	PYREX®	PP
13	PVC	PTFE/NBR	PYREX®	PVC
16	PVC	PTFE/NBR	SS 316	PVC
23	PVDF	PTFE/NBR	PYREX®	PVDF

Series D-100-70		45/5	75/5	124/5	150/5
Capacity range*	l/h	45	75	124	150
Pressure, max.	bar	5	5	5	5
Stroke volume	ml/stroke	21.43	21.55	21.55	21.55
Stroke frequency	per min	35	58	96	116
Connection	inch	1/2	1/2	1/2	1/2
Diaphragm	Ømm	70	70	70	70
Motor power rating	kW	0.18	0.18	0.18	0.18
Dispatch weight PP, PVC, PVDF	kg	8.0	8.0	8.0	8.0
SS 316	N 9	11.0	11.0	11.0	11.0



Technical specifications

Series D-100-90		69/3	115/3	190/3	230/3
Capacity range*	l/h	69	115	190	230
Pressure, max.	bar	3	3	3	3
Stroke volume	ml/stroke	32.86	33.05	32.99	33,05
Stroke frequency	per min	35	58	96	116
Connection	inch	3/4	3/4	3/4	3/4
Diaphragm	Ø mm	90	90	90	90
Motor power rating	kW	0.18	0.18	0.18	0.18
Dispatch weight PP, PVC, PVDF SS 316	kg	8.0 12.0	8.0 12.0	8.0 12.0	8.0 12.0

Technical specifications

Series D-100-105		94/1.5	156/1.5	258/1.5	298/1.5
Capacity range*	l/h	94	156	258	298
Pressure, max.	bar	1.5	1.5	1.5	1.5
Stroke volume	ml/stroke	44.76	44.83	44.79	42.82
Stroke frequency	per min	35	58	96	116
Connection	inch	3/4	3/4	3/4	3/4
Diaphragm	Ø mm	105	105	105	105
Motor power rating	kW	0.18	0.18	0.18	0.18
Dispatch weight PP, PVC, PVDF SS 316	kg	8.5 12.0	8.5 12.0	8.5 12.0	8.5 12.0

Toolinical spoomean					
Series D-100-120		106/1.5	177/1.5	292/1.5	374/1.5
Capacity range*	l/h	106	177	292	374
Pressure, max.	bar	1.5	1.5	1.5	1.5
Stroke volume	ml/stroke	50,48	50.86	50,69	53.74
Stroke frequency	per min	35	58	96	116
Connection	inch	1	1	1	1
Diaphragm	Ø mm	120	120	120	120
Motor power rating	kW	0,18	0.18	0,18	0.18
Dispatch weight PP, PVC, PVDF SS 316	kg	10,0 14,0	10.0 14.0	10,0 14.0	10.0 14.0



Series D-100-70								
		Dosir	ng cal	oacity	/			
		l/h	b	ar				
	45	45		5				
	75	75		5				
	124	124		5				
	150	150		5				
			Pum	p hec	ıd Valve ba	lls	Valve seating	
		11	SS 31	6	SS 316		SS 316	
		12	PP		Pyrex [®]		PP	
		13	PVC		Pyrex [®]		PVC	
		16	PVC		SS 316		PVC	
		23	PVDF	-	Pyrex [®]		PVDF	
				O-ri	ng			
			٧	FPM	(Viton®)			
			Е	EPD	M			
					Connection to the	e ele	ctric supply	
				0	Tri-phase 400-440	VAC	, 50/60 Hz**, 0,18 kW	
				1	Monophase 230\	/AC,	50 Hz, 0,18 kW	
				2	Monophase 240\			
				3	Tri-phase 230/440 Exd IIBT4	VAC	z, 50 Hz**, 0,18 kW,	
D-100-70	45	12	V	0	(example order)			

Your	se	lection

D-100-70			



D-100-90

Series D-100-90				•				
		Dosir	ng cap	acity				
		l/h	b	ar				
	69	69		3				
	115	115		3				
	190	190		3				
	230	230		3				
			Pump	head	l Valve	e balls	Valve seating	
		11	SS 31	6	SS 31	6	SS 316	
		12	PP		Pyrex	®	PP	
		13	PVC		Pyrex	(B	PVC	
		16	PVC		SS 31	6	PVC	
		23	PVDF		Pyrex	®	PVDF	
				O-rin	g			
			V	FPM ((Viton®)			
			Е	EPD <i>N</i>	Λ			
					Connection	to the	electric supply	
				0	Tri-phase 40	0-440V	AC, 50/60 Hz**, 0,18 kW	
				1	Monophase	e 230VA	C, 50 Hz, 0,18 kW	
				2	Monophase	e 240VA	C, 50 Hz, 0,18 kW	
				3		80/440V	AC, 50 Hz**, 0,18 kW,	
					Exd IIBT4			
D-100-90	69	11	٧	1	(example o	rder)		
					,	,		1/2
Your selection								



Your selection **D-100-105**

Series D-100-105		1					
		Dosir	ng cap	oacity			
		l/h	b	ar			
	94	94	1.	5			
	156	156	1.	5			
	258	258	1.	5			
	298	298	1.	5			
			Pum	o head	l Valve balls	Valve seating	
		11	SS 31	6	SS 316	SS 316	
		12	PP		Pyrex [®]	PP	
		13	PVC		Pyrex®	PVC	
		16	PVC		SS 316	PVC	
		23	PVDF	:	Pyrex®	PVDF	
				O-rin	g		
			V	FPM	(Viton®)		
			Е	EPDA	Λ		
					Connection to the ele	ctric supply	
				0	Tri-phase 400-440VAC	, 50/60 Hz**, 0,18 kW	
				1	Monophase 230VAC,	50 Hz, 0,18 kW	
				2	Monophase 240VAC,	50 Hz, 0,18 kW	
				3	Tri-phase 230/440VAC IIBT4	, 50 Hz**, 0,18 kW, Exd	
D-100-105	94	23	٧	1	(example order)		



Dosii I/h	na car	••			
	na car				
I/h	.a car	oacity			
1/1	b	ar			
3 106	1.	5			
7 177	1.	5			
2 292	1.	5			
4 374	1.	5			
	Pump	head	Valve balls	Valve seating	
11	SS 31	6	SS 316	SS 316	
12	PP		Pyrex®	PP	
13	PVC		Pyrex®	PVC	
16	PVC		SS 316	PVC	
23	PVDF	:	Pyrex®	PVDF	
<u> </u>		O-rin	g		
	V	FPM	- (Viton®)		
	Е				
	l		Connection to the ele	ctric supply	
		0	Tri-phase 400-440VAC	, 50/60 Hz**, 0,18 kW	
		1	*		
		2	*		
		3			
3 23	V	1	(example order)		
	7 177 2 292 4 374 11 12 13 16 23	7 177 1. 2 292 1. 4 374 1. Pump 11 SS 31 12 PP 13 PVC 16 PVC 23 PVDF V E	7 177 1.5 2 292 1.5 4 374 1.5 Pump head 11 SS 316 12 PP 13 PVC 16 PVC 23 PVDF O-rin V FPM (E EPDM) 0 1 2 3	7 1.77 1.5 2 292 1.5 4 374 1.5 Pump head Valve balls 11 SS 316 SS 316 12 PP Pyrex® 13 PVC Pyrex® 16 PVC SS 316 23 PVDF Pyrex® O-ring V FPM (Viton®) E EPDM Connection to the ele 0 Tri-phase 400-440VAC 1 Monophase 230VAC, 2 Monophase 230VAC, 3 Triphase 230/440VAC, Exd IIBT4	177 1.5 292 1.5 374 1.5

D-100-120
D-100-120

Your selection

Viton® is a registered trademark of DuPont Dow Elastomers Pyrex® is a registered trademark of Corning Incorporated.

^{*}The listed dosing rates refer to H₂O dosages at the pressure indicated!

**Specify 60 Hz mains frequency separately when ordering! Different pump delivery output!



Motor driven pump Series DOSAMac D-101

Capacity range 90 ... 408 l/h



General performance characteristics

• Delivery range: 90 ... 408 l/h Pressure range: 8 ... 3 bar

- Stroke adjustment continuous from 0 ... 100% Power supply: 230 V or 400 V, 50/60 Hz
- Dosing head and valve material options:
 - PP, PVC, PVDF or stainless steel SS 316
- Valve ball material options:
 - Pyrex® or stainless steel SS 316
- Diaphragm made of PTFE
- Max. temperatures of dosing media:
 PP and PVC: 40°C
 - Stainless steel SS 316: 60°C
 - Actuator (option):

All pumps can be fitted with a frequency converter actuate with a 4 - 20 mA signal.

Versions

Series D-101	Pump head	Diaphragm	Valve balls	Valve seating
11	SS 316	PTFE/NBR	SS 316	SS 316
12	PP	PTFE/NBR	PYREX®	PP
13	PVC	PTFE/NBR	PYREX®	PVC
16	PVC	PTFE/NBR	SS 316	PVC
23	PVDF	PTFE/NBR	PYREX®	PVDF

Series D-101-70		90/8	123/8	154/8
Capacity range*	l/h	90	123	154
Pressure, max.	bar	8	8	8
Stroke volume	ml/stroke	21.43	21.35	21.39
Stroke frequency	per min	70	96	120
Connection	inch	1/2	1/2	1/2
Diaphragm	Ø mm	70	70	70
Motor power rating	kW	0.25	0.25	0.25
Dispatch weight PP, PVC, PVDF SS 316	kg	8.0 11.5	8.0 11.5	8.0 11.5



Technical specifications

Series D-101-90		148/5	202/5	255/5
Capacity range*	l/h	148	202	255
Pressure, max.	bar	5	5	5
Stroke volume	ml/strok e	35.24	35.07	34.42
Stroke frequency	per min	70	96	120
Connection	inch	3/4	3/4	3/4
Diaphragm	Ø mm	90	90	90
Motor power rat- ing	kW	0.25	0.25	0.25
Dispatch weight PP, PVC, PVDF SS 316	kg	10.0 13.5	10.0 13.5	10.0 13.5

Technical specifications

Series D-101-105		201/3	275/3	331/3
Capacity range*	l/h	201	275	331
Pressure, max.	bar	3	3	3
Stroke volume	ml/strok e	47.86	47.74	45.97
Stroke frequency	per min	70	96	120
Connection	inch	3/4	3/4	3/4
Diaphragm	Ø mm	105	105	105
Motor	kW	0.25	0.25	0.25
Dispatch weight PP, PVC, PVDF SS 316	kg	11.0 14.5	11.0 14.5	11.0 14.5

Series D-101-120		225/3	308/3	408/3
Capacity range*	l/h	225	308	408
Pressure, max.	bar	3	3	3
Stroke volume	ml/strok e	53.57	53.47	56.67
Stroke frequency	per min	70	96	120
Connection	inch	1	1	1
Diaphragm	Ø mm	120	120	120
Motor power rat- ing	kW	0.25	0.25	0.25
Dispatch weight PP, PVC, PVDF SS 316	kg	12.0 18.0	12.0 18.0	12.0 18.0



D-101-70

Series D-101-70							
		Dosii	ng cap	oacity	/		
		I/h	b	ar			
	90	90)	8			
	123	123	,	8			
	154	154		8			
			Pum	р Нес	ıd Valve balls	Valve seating	
		11	SS 31	6	SS 316	SS 316	
		12	PP		Pyrex [®]	PP	
		13	PVC		Pyrex [®]	PVC	
		16	PVC		SS 316	PVC	
		23	PVDF	=	Pyrex [®]	PVDF	
				O-R	ing		
			V	FPM	(Viton®)		
			Е	EPD	M		
					Electric connection		
				0	Tri-phase 400-440VAC,	50/60 Hz**, 0,25 kW	
				1	Monophase 230VAC, 5	60 Hz, 0,25 kW	
				2	Monophase 240VAC, 5	60 Hz, 0,25 kW	
				3	Tri-phase 230/400VAC,	50 Hz, 0,25 kW, Exd IIBT4	
				4	Monophase 230VAC, 5	60 Hz, 0,37 kW	
				5	Monophase 240VAC, 5	60 Hz, 0,37 kW	
				6	Tri-phase 230/400VAC,	50 Hz, 0,37 kW, Exd IIBT4	
D-101-70	90	12	٧	0	(example order)		
Your selection							



eries D-101-70	1						
		Dosii	ng ca	pacit	1		
		I/h	b	ar			
	90	90)	8			
	123	123	,	8			
	154	154		8			
			Pum	p hec	d Valve balls	Valve seating	
		11	SS 31	6	SS 316	SS 316	
		12	PP		Pyrex®	PP	
		13	PVC		Pyrex [®]	PVC	
		16	PVC		SS 316	PVC	
		23	PVDI	F	Pyrex [®]	PVDF	
				O-R	ing		
			V	FP№	(Viton®)		
			Е	EPD	M		
			Į		Electric connection		
				0	Tri-phase 400-440VAC,	50/60 Hz**, 0,25 kW	
				1	Monophase 230VAC, 5		
				2	Monophase 240VAC, 5		
				3	·	50 Hz, 0,25 kW, Exd IIBT4	
				4	Monophase 230VAC, 5		
				5	Monophase 240VAC, 5		
				6	·	50 Hz, 0,37 kW, Exd IIBT4	
					p. 7636 2667 16677 167	55	
D-101-70	90	12	V	0	(Example order)		

Your	se	lect	ion

1001 3010011011			
D-101-70			



Series D-101-70							
		Dosii	ng ca	pacit	/		
		I/h	b	ar			
	90	90)	8			
	123	123	,	8			
	154	154	•	8			
			Pum	р Нес	ad Valve balls	Valve seating	
		11	SS 31	6	SS 316	SS 316	
		12	PP		Pyrex®	PP	
		13	PVC		Pyrex [®]	PVC	
		16	PVC		SS 316	PVC	
		23	PVDI	=	Pyrex [®]	PVDF	
				O-R	ing		
			V	F₽№	(Viton®)		
			Е	EPD	M		
					Electric Connection		
				0	Tri-phase 400-440VAC,	50/60 Hz**, 0,25 kW	
				1	Monophase 230VAC, 5	50 Hz, 0,25 kW	
				2	Monophase 240VAC, 5	50 Hz, 0,25 kW	
				3	Tri-phase 230/400VAC,	50 Hz, 0,25 kW, Exd IIBT4	
				4	Monophase 230VAC, 5	50 Hz, 0,37 kW	
				5	Monophase 240VAC, 5	50 Hz, 0,37 kW	
				6	Tri-phase 230/400VAC,	50 Hz, 0,37 kW, Exd IIBT4	
D-101-70	90	12	V	0	(example order)		

D-101-70 90 12 V 0 (example order)	
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Your selection

10013010011011			
D-101-70			



Bestellcode

Series D-101-120							
		l/h	b				
	225	225	;	3			
	308	308	. ;	3			
	408	408	;	3			
			Pump	head	Valve balls	Valve seating	
		11	SS 31	6	SS 316	SS 316	
		12	PP		Pyrex®	PP	
		13	PVC		Pyrex [®]	PVC	
		16	PVC		SS 316	PVC	
		23	PVDF		Pyrex [®]	PVDF	
			O-Ring				
			V	FPM ((Viton®)		
			Е	EPD <i>N</i>	1		
				Electric connection			
				0	Tri-phase 400-440VAC	, 50/60 Hz**, 0,25 kW	
				1	Monophase 230VAC,	50 Hz, 0,25 kW	
				2	Monophase 240VAC,	50 Hz, 0,25 kW	
				3	Tri-phase 230/400VAC	c, 50 Hz, 0,25 kW, Exd IIBT4	
				4	Monophase 230VAC,	50 Hz, 0,37 kW	
				5	Monophase 240VAC,	50 Hz, 0,37 kW	
				6	Tri-phase 230/400VAC	c, 50 Hz, 0,37 kW, Exd IIBT4	
					<u>'</u>		
D-101-120	225	23	٧	1	(Example order)		
Your selection							
D-101-120							
			•		1		1

^{*}The listed dosing rates refer to H₂O dosages at the pressure indicated!

^{**}Specify 60 Hz mains frequency separately when ordering!! Different pump delivery output! Viton® is a registered trademark of DuPont Dow Elastomers

Pyrex® is a registered trademark of Corning Incorporated.



Motor driven pump Series DOSAMac D-121

Capacity range 322 ... 574 l/h



General performance characteristics

• Capacity range: 323 ... 574 l/h

Pressure range: 3 bar

• Stroke adjustment continuous from 0 ... 100%

Power supply: 230 V or 400 V, 50/60 Hz

• Dosing head and valve material options:

- PP, PVC, PVDF or stainless steel SS 316

Valve ball material options:

- Pyrex® or stainless steel SS 316

Diaphragm made of PTFE

Max. temperatures of dosing media:

- PP and PVC: 40°C

- Stainless steel SS 316: 60°C

Actuator (option):

All pumps can be fitted with a frequency converter

actuate with a 4 ... 20 mA signal.

Versions

Series D-121	Pump head	Diaphragm	Valve balls	Valve seating
11	SS 316	PTFE/NBR	SS 316	SS 316
12	PP	PTFE/NBR	PYREX®	PP
13	PVC	PTFE/NBR	PYREX®	PVC
16	PVC	PTFE/NBR	SS 316	PVC
23	PVDF	PTFE/NBR	PYREX®	PVDF

Series D-121-120		322/8	438/3	574/3
Capacity rate*	l/h	322	438	574
Pressure, max.	bar	3	3	3
Stroke volume	ml/stroke	76.67	76.05	79.72
Stroke frequency	per min	70	96	120
Connection	inch	1	1	1
Diaphragm	Ømm	120	120	120
Motor power rating	kW	0.37	0.37	0.37
Dispatch weight PP, PVC, PVDF SS 316	kg	12.0 18.0	12.0 18.0	12.0 18.0



J. J							
Serie D-121-120							
		Dosii	ng cal	oacity			
		I/h	b	ar			
	322	322		3			
	438	438	}	3			
	574	574		3			
			Pum	p head	Valve size	Valve seating	
		11	SS 31	6	SS 316	SS 316	
		12	PP		Pyrex [®]	PP	
		13	PVC		Pyrex [®]	PVC	
		16	PVC		SS 316	PVC	
		23	PVDF	=	Pyrex [®]	PVDF	
				O-Rin	g		
			V	FPM (Viton®)		
			Е	EPD <i>N</i>	١		
					Electric connection		
				0	Tri-phase 400-440VAC	C, 50/60 Hz**, 0,25 kW	
				1	Monophase 230VAC	, 50 Hz, 0,25 kW	
				2	Monophase 240VAC	, 50 Hz, 0,25 kW	
				3	Tri-phase 230/400VAC	C, 50 Hz, 0,25 kW, Exd IIBT4	
				4	Monophase 230VAC,	, 50 Hz, 0,37 kW	
				5	Monophase 240VAC,	, 50 Hz, 0,37 kW	
				6	Tri-phase 230/400VAC	C, 50 Hz, 0,37 kW, Exd IIBT4	
D-121-120	322	12	٧	1	(Example order)		
Your selection							
D-121-120							

^{*}The listed dosing rates refer to H_2O dosages at the pressure indicated!

^{**}Specify 60 Hz mains frequency separately when ordering!! Different pump delivery output! Viton® is a registered trademark of DuPont Dow Elastomers

Pyrex® is a registered trademark of Corning Incorporated.



Motor driven pump Series PRIUS

Capacity range 21 ... 530 l/h



General information:

Capacity range: 21 ... 530 l/h
 Pressure range: 10 ... 5 bar
 Stroke adjustment constant from 0 to 100%

Power supply:

0.18Kw - 220-240/380-420 - 50 Hz 0.37Kw - 220-240/380-420 - 50 Hz

0.18Kw - 440-480 - 60 Hz 0.37Kw - 440-480 - 60 Hz

• Ambient temperature: 0 - 40 ° C

• Dosing head material options:

- PVDF: 0 - 65 ° C - PVC: 0 - 40 ° C - AISI 316L: 0 - 40 ° C Manual ventilation valve

Housing made of aluminium (epoxy-coating)

Diaphragm made of PTFE

• Suction height max.: 3 m









Series PRIUS 50 Hz, 94 Strokes		24/10	54/7	78/7		
Dosing capacity*	l/h	24	54	78		
Pressure, max.	bar	10	7	7		
Stroke volume	ml/Stroke	4.26	9.57	13.83		
Stroke frequency	1/min	94				
	PVDF	NM	TM	TM		
Pump head	PVC	-	-	-		
	AISI 316L	NM	TM	TM		
Motor	kW	0.18	0.37	0.37		
Electric connection		220-240/380-420 V - 50 Hz				
Gear reduction		15:1				
Dispatch weight approx.	kg	17.0	18.0	18.0		

Series PRIUS 50 Hz, 94 I	Hübe	125/5	270/5			
Dosing capacity*	l/h	125	270			
Pressure, max.	bar	5	5			
Stroke volume	ml/Stroke	22.16	47.87			
Stroke frequency	1/min	94				
	PVDF	TM	-			
Pump head	PVC	-	UM			
	AISI 316L	TM	UM			
Motor	kW	0.37	0.37			
Electric connection		220-240/380-420 V - 50 Hz				
Gear reduction		15:1				
Dispatch weight approx.	kg	20.0	21.0			



C	. 611	10/10	110/7	1/0/7		
Series PRIUS 50 Hz, 175 Strokes		60/10	110/7	160/7		
Dosing capacity*	l/h	60	110	160		
Pressure, max.	bar	10	7	7		
Stroke volume	ml/Stroke	5.71	10.48	15.24		
Stroke frequency	1/min	175				
	PVDF	NM	TM	TM		
Pump head	PVC	-	-	-		
	AISI 316L	NM	TM	TM		
Motor	kW	0.18	0.37	0.37		
Electric connection		220-240/380-420 V - 50 Hz				
Gear reduction		8:1				
Dispatch weight approx.	kg	17.0	18.0	18.0		

Series PRIUS 50 Hz, 175 Strokes		240/5	530/5		
Dosing capacity*	l/h	240	530		
Pressure max.	bar	5	5		
Stroke volume	ml/Stroke	22.86	50.48		
Stroke frequency	1/min	175			
	PVDF	TM	-		
Pump head	PVC	-	UM		
	AISI 316L	TM	UM		
Motor	kW	0.37	0.37		
Electric connection		220-240/380-	420 V - 50 Hz		
Gear reduction		8	: 1		
Dispatch weight approx.	kg	20.0	21.0		



Series PRIUS 60 Hz, 87 Strokes		21/10	46/7	65/7		
Dosing capacity*	l/h	21	46	65		
Pressure, max.	bar	10	7	7		
Stroke volume	ml/Stroke	4.02	8.81	12.45		
Stroke frequency	1/min	87				
	PVDF	NM	TM	TM		
Pump head	PVC	-	-	-		
	AISI 316L	NM	TM	TM		
Motor	kW	0.18	0.37	0.37		
Electric connection		440-480 - 60 Hz				
Gear reduction		20:1				
Dispatch weight approx.	kg	17.0	18.0	18.0		

Series PRIUS 60 Hz, 87	Strokes	115/5	230/5		
Dosing capacity*	l/h	115	230		
Pressure, max.	bar	5	5		
Stroke volume	ml/Stroke	22.03	44.06		
Stroke frequency	1/min	87			
	PVDF	TM	-		
Pump head	PVC	-	UM		
	AISI 316L	TM	UM		
Motor	kW	0.37	0.37		
Electric connection		440-480) - 60 Hz		
Gear reduction		20:1			
Dispatch weight approx.	kg	20.0	21.0		



Series PRIUS 60 Hz, 175 Strokes		57/10	97/7	140/7		
Dosing capacity*	l/h	57	97	140		
Pressure, max.	bar	10	7	7		
Stroke volume	ml/Stroke	5.43	9.24	13.33		
Stroke frequency	1/min	175				
	PVDF	NM	TM	TM		
Pump head	PVC	-	-	-		
	AISI 316L	NM	TM	TM		
Motor	kW	0.18	0.37	0.37		
Electric connection		440-480 - 60 Hz				
Gear reduction		10:1				
Dispatch weight approx.	kg	17.0	18.0	18.0		

Series PRIUS 60 Hz, 175	Strokes	230/5	520/5		
Dosing capacity*	l/h	230	520		
Pressure, max.	bar	5	5		
Stroke volume	ml/Stroke	21.90	49.52		
Stroke frequency	1/min	175			
	PVDF	TM	-		
Pump head	PVC	-	UM		
	AISI 316L	TM	-		
Motor	kW	0.37	0.37		
Electric connection		440-480) - 60 Hz		
Gear reduction		10	: 1		
Dispatch weight approx.	kg	20.0	21.0		



Series PRIUS 50 Hz, 94 Str					
		Dosin	g capaci	ty	
		l/h	bar	Pump head	
	24 PVDF	24	10	PVDF	
	54 PVDF	54	7	PVDF	
	78 PVDF	78	7	PVDF	
	125 PVDF	125	5	PVDF	
	24 AISI 316L	24	10	AISI 316L	
	54 AISI 316L	54	7	AISI 316L	
	78 AISI 316L	78	7	AISI 316L	
	125 AISI 316L	125	5	AISI 316L	
	270 AISI 316L	270	5	AISI 316L	
	270 PVC	270	5	PVC	
			O-Ring		
		V	FPM (Vit	on®)	
		Е	EPDM		

PRIUS 50 Hz, 94 125 PVDF V (Example order)

Your selection

PRIUS 50 Hz, 94				
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Series PRIUS 50 Hz, 175 St					
		Dosin	g capaci	ty	
		l/h	bar	Pump head	
	60 PVDF	60	10	PVDF	
	110 PVDF	110	7	PVDF	
	160PVDF	160	7	PVDF	
	240 PVDF	240	5	PVDF	
	530 PVDF	530	5	PVDF	
	60 AISI 316L	60	10	AISI 316L	
	110 AISI 316L	110	7	AISI 316L	
	160 AISI 316L	160	7	AISI 316L	
	240 AISI 316L	240	5	AISI 316L	
	530 AISI 316L	530	5	AISI 316L	
	530 PVC	530	5	PVC	
			O-Ring		
		V	FPM (Vit	on®)	
		Е	EPDM		

PRIUS 50 Hz, 175 240 PVDF	٧	(Example order)	
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Your selection

10010010011		
PRIUS 50 Hz, 175		



Series PRIUS 60 Hz, 87 Str					
		Dosin	g capaci	ty	
		l/h	bar	Pump head	
	21 PVDF	21	10	PVDF	
	46 PVDF	46	7	PVDF	
	65 PVDF	65	7	PVDF	
	115 PVDF	115	5	PVDF	
	21 AISI 316L	21	10	AISI 316L	
	46 AISI 316L	46	7	AISI 316L	
	65 AISI 316L	65	7	AISI 316L	
	115 AISI 316L	115	5	AISI 316L	
	230 AISI 316L	230	5	AISI 316L	
	230 PVC	230	5	PVC	
			O-Ring		
		V	FPM (Vit	on®)	
		Е	EPDM		

PRIUS 60 Hz, 87 115 PVDF V (Example order)
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Your selection

PRIUS 60 Hz, 87				
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Series PRIUS 60 Hz, 175 Strokes						
		Dosin	g capaci	ty		
		l/h	bar	Pump head		
	57 PVDF	57	10	PVDF		
	97 PVDF	97	7	PVDF		
	140 PVDF	140	7	PVDF		
	230 PVDF	230	5	PVDF		
	57 AISI 316L	57	10	AISI 316L		
	97 AISI 316L	97	7	AISI 316L		
	140 AISI 316L	140	7	AISI 316L		
	230 AISI 316L	230	5	AISI 316L		
	520 AISI 316L	520	5	AISI 316L		
	520 PVC	520	5	PVC		
			O-Ring			
		٧	FPM (Vit	on®)		
		Е	EPDM			

PRIUS 60 Hz, 175 230 PVDF V (Example order)

Your selection

PRIUS 60 Hz, 175				
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Proportional doser Series D 3



Technical specifications

Dosing range: 0.03 - 25%Water flow rate**: $10 \text{ l/h} - 3 \text{ m}^3\text{/h}$

0.16 l/min – 50.00 l/h min

Operating pressure: 0.3 – 6 bar*

Concentrate feed: 0.003 – 300 l/h*

* depending on model

** Please contact us for other fluid drive media

Operating principle

When connected to the water mains, the doser only uses the water pressure as the driving force. This is how it draws in the concentrate, doses it at the required dose rate and mixes it with the drive water to the required percentage. The process solution thus prepared flows through the doser.

The amount of the product added is always proportional to the water throughput, even when there are flow or pressure fluctuations.

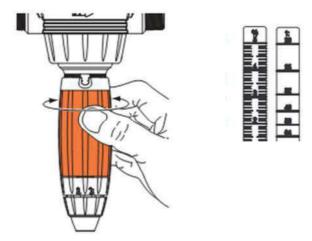
Proportional dosing with outside setting

Adjusting the dosage:

The tips of the notch of the adjustment collar point to the corresponding value. The amount of concentrate fed in is proportional to the volume of water flowing through the doser:

e.g. adjustment to 1% = 1:100

= 1 volume of concentrate added to 100 volumes of water.



3 m³/h product series (outside setting)

on the product series (conside sering)							
Reference	Dosage	Pressure					
D 3 RE 3000	0.03 – 03 %	0.3 - 6 bar					
D 3 RE 2	0.2 – 2 %	0.3 - 6 bar					
D 3 RE 5	0.5 – 5%	0.3 - 6 bar					
D 3 RE 10	1 – 10 %	0.3 - 6 bar					
D 3 RE 25*	5 – 10 %	0.3 - 6 bar					

^{*}D 3 RE 25 max. flow rate 2 m³/h

Other dosers are available for the treatment of water at flow rates up to $0.7 \text{ m}^3/\text{ h}$; $1.5 \text{ m}^3/\text{ h}$; $2.5 \text{ m}^3/\text{ h}$; $4.5 \text{ m}^3/\text{h}$; $20 \text{ m}^3/\text{h}$; $30 \text{ m}^3/\text{h}$; $40 \text{$

Please contact us concerning accessories and special systems for special models.



General information	
Maximum temperature of drive water	40°C
Minimum temperature of drive water	5°C
Dosage	e.g. adjusted to 1% = 1:100 = 1 vol. full concentrate + 100 vols. water
Average dosage tolerance*	± 10 %
Repeatability	± 3% (standard API675)
Pressure loss	0.2 - 2.3 bar
Other built-in features	
Built-in motor	no
Inlet / outlet connections	3/4" M : BSP – NPT – Ø 20 x 27 mm
Built-in bypass	Optional
Built-in ventilation	yes
Built-in anti-siphon system	no
Drive	
Motor	Hydraulic differential piston motor
Stroke	0.53 (1 cycle = 2 clack sounds)
Mixing chamber	Built in
Dosage	
Feed	Internal feed in discharge mixing chamber
Dosing piston	single-acting 10%, double acting from 10% upwards
Intake valve	Spring-loaded cone valve with seal
Intake	
Self-priming	yes
Maximum viscosity of concentrate	200 – 800 cPs at 20°C from 400 cPs, V-kit recommended for dosage > 2%
Maximum intake height / length of intake hose	4 m
Intake filter	yes – with ballast

• Depending on model and operating conditions

Industries

Environment - Hygiene - Water treatment - Food industry – Automatic car washing – Metal processing – Printing industry – Horticulture etc.

Key applications

Disinfection – Cleaning – Fertilizing – Pest control – Lubrication – PH/TH regulation – Sanitation – Flocculation – automatic vehicle washing etc.

Installation

Regulations: When connecting the doser to the drinking water mains, follow the applicable standards and regulations.



To maximise the service life of the doser, we recommend the following:

- Install a filter (60 micron [300 mesh]) upstream of the doser if the water quality requires one.
- Change the dosing seals at least once every year.
- Rinse with clear water as often as possible.
- Adjust the doser with the pressure shut off.
- Install the necessary protective devices (flow limiters/pressure limiters and water hammer arresters etc.) in the pipeline system for protection against excess flow, excess pressure and pressure spikes.
- Install dosers in a total by-pass system.

Please contact us for all other installation advice.

Dimensions D3 RE 2 - D3RE5 /10

• Package dimensions: 55.4 x 16.8 x 14.4 cm

• Package weight: 2.0 kg

Standard material

Housing: Special polypropylene, HT

Motorized piston: polypropylene, polyamide, Vf or HAT Peek, PVDF Dosing part: polypropylene, polyethylene, Hastelloy (valve spring)

Intake hose: PVC or polyethylene

Available options

(■: Options •: standard ★: not available for this model or unnecessary)

Optimised compatibility

AF: recommended seals for alkaline concentrate

VF: recommended seals for acid, oil or odour neutralization,

Vegetation protection

■ K: for high concentration acid (<15%)

PVDF: Housing

IE: with external injectionV: kit for viscous concentrate

Intake hose: Special material and intake head available

Optimised installation

■ T: For installing a DOSER in a hot water system (60°C)

■ BP: Built-in bypass

★ Other connections

Fixing tape

Please contact us if you have any further questions

These options mean that the doser can be perfectly adapted to any requirements. The options which are needed can be determined with the support of our technical department.



Order code

Type in PP	Dosing rate %	Ratio	Water flow rate (litre/h) min/max pressure	
D3RE3000	0.03 – 0.3	1:3333 - 330	10 - 3000 0.3 - 6bar	
D3RE2	0.2 - 2	1:500 – 1:50	10 - 3000 0.3 - 6bar	
D3RE5	0.5 - 5	1:200 – 1:20	10 - 3000 0.3 - 6bar	
D3RE10	1 – 10	1:100 – 1:10	10 - 3000 0.3 - 6bar	
D3RE25IE	5 - 25	1:20 – 1:4	10 – 2000 0.5 - 4bar	

Type in PVDF	Dosing rate %	Ratio	Water flow rate (Litre/h) min/max pressure	
D3RE3000 PVDF	0.03 – 0,3	1:3333 – 330	10 - 3000 0.3 - 6bar	
D3RE2 PVDF	0.2 – 2	1:500 – 1:50	10 - 3000 0.3 - 6bar	
D3RE5 PVDF	0.5 – 5	1:200 – 1:20	10 - 3000 0.3 - 6bar	
D3RE10 PVDF	1 – 10	1:100 – 1:10	10 - 3000 0.3 - 6bar	
D3RE25IE PVDF	5 - 25	1:20 – 1:4	10 – 2000 0.5 - 4bar	

Dosatron proportional dosers are available with 2 types of seal:

VF seals for acid, AF seals for alkaline products.

PVDF is available as a housing material for aggressive media

Order code

Options	
Product intake hose as viscous kit version	
An optional by-pass switch is available for series D25 and D3	
The intake system can be switched on/off	

Accessories	
1/2" pressure reducer male thread with pressure gauge	
3/4" water filter with Plexitopf washable filter cartridge 80 micron	
1/2" backflow preventer BA Micro DVGW tested (max.1000l/h)	
1/2" backflow preventer BA compact	
1/2" stainless steel water-hammer-arrester	

Dosatron® is a registered trademark of Dosatron



Proportional doser Series D 25



Technical specifications

Dosing range: 0.07 - 10%Water flow rate**: $10 \text{ l/h} - 2.5 \text{ m}^3\text{/h}$

0.16 l/min – 41.66 l/h min

Operating pressure: 0.3 – 6 bar*

Concentrate feed: 0.007 – 200 I/h*

* depending on model

** Please contact us for other fluid drive media

Operating principle

When connected to the water mains, the doser only uses the water pressure as the driving force. This is how it draws in the concentrate, doses it at the required dose rate and mixes it with the drive water to the required percentage. The process solution thus prepared flows through the doser.

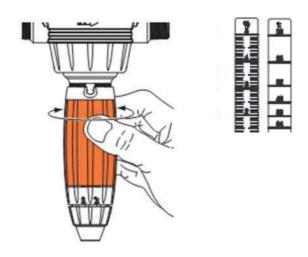
The amount of the product added is always proportional to the water throughput, even when there are flow or pressure fluctuations.

Proportional dosing with outside setting

The injection rate is determined by turning the regulator screw, where the upper edge of the screw must match the required value on the dosing scale. The injected concentrate is proportional to the volume of water flowing through the doser:

e.g. adjustment to 1% = 1:100

= 1 volume of concentrate added to 100 volumes of water.



2.5 m³/h product series (fixed)

Reference	Dosage	Pressure
D 25 F	0.8 %	0.3 - 6 bar
D 25 F 1	1 %	0.3 - 6 bar
D 25 F 02	0.2 %	0.3 - 6 bar
D 25 F 2	2 %	0.3 - 6 bar



2.5 m³/h product series (outside setting)

Reference	Dosage	Pressure
D 25 RE 1500	0.07 – 0.2 %	0.3 - 6 bar
D 25 RE 09	0.1 – 0.9 %	0.3 - 6 bar
D 25 RE 2 / IE	0.2 – 2%	0.3 - 6 bar
D 25 RE 5 / IE	1 – 5 %	0.3 - 6 bar
D 25 RE 10 / IE*	3 – 10 %	0.3 - 6 bar

^{*}D 25 RE 10 / IE max. flow rate 2 m³/h

Other dosers are available for the treatment of water at flow rates up to $0.7 \text{ m}^3/\text{ h}$; $1.5 \text{ m}^3/\text{ h}$; $2.5 \text{ m}^3/\text{ h}$; $4.5 \text{ m}^3/\text{h}$; $20 \text{ m}^3/\text{h}$; $30 \text{ m}^3/\text{h}$; $60 \text{ m}^3/\text{h}$ etc.

Please contact us concerning accessories and special systems for special models.

Technical specifications

General information			
Maximum temperature of drive water	40°C		
Minimum temperature of drive water	5°C		
Dosage	e.g. adjusted to 1% = 1:100 = 1 vol. full concentrate + 100 vols. water		
Average dosage tolerance*	± 5%		
Repeatability	± 3% (standard API675)		
Pressure loss	0.39 bar depending on model and operating conditions		
Other built-in features			
Built-in motor	no		
Inlet / outlet connections	3/4" M : BSP – NPT – Ø 20 x 27 mm		
Built-in bypass	Optional		
Built-in ventilation	yes		
Built-in anti-siphon system	no		
Drive			
Motor	Hydraulic differential piston motor		
Stroke	0.53 (1 cycle = 2 clack sounds)		
Mixing chamber	Built in		
Dosage			
Feed	Internal feed in discharge mixing chamber		
Dosing piston	Single-acting 10%, double acting from 10% upwards		
Intake valve	Spring-loaded cone valve with seal		
Intake			
Self-priming	yes		
Maximum viscosity of concentrate	200 – 800 cPs at 20°C from 400 cPs, V-kit recommended for dosage > 2%		
Maximum intake height / length of intake hose	4 m		
Intake filter	yes – with ballast		

• Depending on model and operating operations



Industries

Environment – Hygiene – Water treatment – Food industry – Automatic vehicle washing – Metal processing – Printing industry – Horticulture etc.

Key applications

Disinfection - Cleaning - Fertilizing - Pest control - Lubrication - PH/TH regulation - Sanitation - Flocculation - automatic vehicle washing etc.

Installation

Regulations: When connecting the doser to the drinking water mains, follow the applicable standards and regulations.

To maximise the service life of the doser, we recommend the following:

- install a filter (60 micron [300 mesh]) upstream of the doser if the water quality requires one.
- Change the dosing seals at least once every year.
- Rinse with clear water as often as possible.
- Adjust the doser with the pressure shut off.
- Install the necessary protective devices (flow limiters/pressure limiters and water hammer arresters etc) in the pipeline system for protection against excess flow, excess pressure and pressure spikes.
- Install dosers in a total by-pass system.

Please contact us for all other installation advice.

Dimensions:

• Package dimensions: 52 x 16.8 x 17.5 cm

Package weight: 1.7 kg

Standard material

Housing: polyacetal (polyformaldehyde), HAT

Motorised piston: polypropylene, nylon, stainless steel, Vf or HAT and polyacetal

Dosing part: polypropylene, polyethylene, Hastelloy (valve spring)

Intake hose: PVC

Available options

(■: Options •: standard ★: not available for this model or unnecessary)

Optimised compatibility

AF: recommended seals for alkaline concentrate

• VF: recommended seals for acid, oil or odour neutralisation,

Vegetation protection

PVDF: Housing

H: Hastelloy piston rod
 IE: with external injection
 V: kit for viscous concentrate

Intake hose: Special material and intake head available

Optimised installation

■ BP: built-in bypass

★ Other connections

Carrying strap

Please contact us if you have any further questions

These options mean that the doser can be perfectly adapted to any requirements. The option required can be determined with the support of our technical department.



Order code

Туре	Dosing rate %	Water flow rate (litre/h) min/max pressure		
D25RE09	0.1 – 0.9	1:1000-1:112	10 - 2500 0.3 - 6bar	
D25RE2	0.2 – 2	1:500-1:50	10 - 2500 0.3 - 6 bar	
D25RE/IE2	0.2 – 2	1:500-1:50	10 - 2500 0.3 - 6bar	
D25RE4	0.5 - 4	1:200-1:25	10 - 2500 0.3 - 6bar	
D25RE5	1 – 5	1:100-1:20	10 - 2500 0.3 - 6bar	
D25RE/IE5	1 – 5	1:100-1:20	10 - 2500 0.3 - 6bar	
D25RE10	3 - 10	1:33-1:10	10 - 2000 0.3 - 4bar	
D25RE/IE10	3 – 10	1:33-1:10	10 - 2000 0.3 - 4bar	

Type in PVDF	Dosing rate %	Ratio	Water flow rate (Litre/) min/max pressure	
D25RE09 PVDF	0.1 – 0.9	1:1000-1:112	10 – 2500 0.3 - 6bar	
D25RE09AO PVDF	0.1 – 0.9	1:1000 – 1:112	10 - 2500 0.3 - 6bar	
D25RE2AO PVDF	0.2 – 2	1:500 – 1:50	10 - 2500 0.3 - 6bar	
D25RE2 PVDF	0.2 – 2	1:500-1:50	10 - 2500 0.3 - 6 bar	
D25RE/IE2 PVDF	0.2 – 2	1:500-1:50	10 – 2500 0.3 - 6bar	
D25RE4 PVDF	0.5 - 4	1:200-1:25	10 - 2500 0.3 - 6bar	
D25RE5 PVDF	1 – 5	1:100-1:20	10 - 2500 0.3 - 6bar	
D25RE/IE5 PVDF	1 – 5	1:100-1:20	10 – 2500 0.3 - 6bar	
D25RE10 PVDF	3 - 10	1:33-1:10	10 - 2000 0.3 - 4bar	
D25RE/IE10 PVDF	3 – 10	1:33-1:10	10 - 2000 0.3 - 4bar	

Dosatron proportional dosers are available with 2 types of seal:

VF seals for acid, AF seals for alkaline products.

PVDF is available as a housing material for aggressive media

Order code

Options	
Product intake hose as the viscous kit version	
An optional by-pass switch is available for series D25 and D3	
The intake system can be switched on/off	

Accessories	
1/2" pressure reducer male thread with gauge	
3/4" water filter with Plexitopf washable filter cartridge 80 micron	
1/2" backflow preventer BA Micro DVGW buffered (max.1000l/h)	
1/2" backflow preventer BA compact	
1/2" stainless steel water hammer arrester	

Dosatron® is a registered trademark of Dosatron



Dry-material doser TG-DOS

Conveyor output 4.2 ... 510.4 l/h



General information

Dry material dosers are particularly suitable for dispensing bulk, fine dust materials. They consist of a container made of stainless steel or plastic which contains the bulk material conveyed and fed to a screw.

- Conveyor output of up to 510.4 l/h, others available on request
- screw-conveyor in 6 sizes
- choice of 66 delivery ranges
- full screw

Materials: Housing PP

Screw PA

Mouthpiece VA

Drive: Three-phase gear motor

230/400V 50 Hz - 0.25 kW

With PTCs Iso class F

Suitable for frequency control

230 V/50 Hz - 6 Watt Mouthpiece heater:

Controller: Single-phase converter

Toshiba VF-S11 Time controller for mouthpiece heater





Versions

Drive speed of gear motor at 50Hz. (possible: 10 – 100 Hz)			18	28	32	47	56	70	93	117	140	175	207
TG-DOS 1	l/h	PA	4,2	6,6	7,5	11,1	13,2	16,5	21,9	27,6	33,0	41,2	48,8
	,,,,	VA	13,2	20,5	23,4	34,4	41,0	51,2	68,0	85,6	102,4	128	151,4
TG-DOS 2	l/h	PA	12,3	19,1	21,9	32,1	38,3	47,9	63,6	80,0	95,7	119,6	141,5
10-003 2	1/11	VA	26,8	41,7	47,7	70,0	83,5	104,3	138,6	174,4	208,6	260,8	208,5
TC DOS 3	l/h	РА	29,1	45,2	51,7	75,9	90,4	113,1	150,2	189,0	226,1	282,6	334,3
TG-DOS 3	1711	VA	44,4	69,0	78,9	115,9	138,1	172,6	229,3	288,5	345,2	431,5	510,4

PA / VA screw-conveyor delivery in ltr./ h at 50 Hz



Dry mater	rial dose	er TG-DC)S									
		Size:										
	1											
	2											
	3											
			Materio	aterial of screw-conveyor								
		PA	PA scre	w-conv	eyor							
		VA	VA scre	w-conv	eyor for size 1							
		VA	VA scre	w-conv	eyor for size 2							
		VA	VA scre	w-conv	eyor for size 3							
					peed of gear motor at 50 Hz							
				(possib	le : 10 - 100 Hz).							
			18									
			28									
			32									
			47									
			56									
			70									
			93									
			117									
			140									
			175									
			207									
					Additional equipment (multiple selections are possible)							
				М	Mouthpiece-heater							
				SH	Heater controller							
				SF	Controller with frequency converter							
				PP4	PP powder funnel 45 l							
				PP9	PP powder funnel 90 l							
				KP	Capacitance powder probe							
				SÜ	Screw monitor							
TG-DOS	2	PA	18	PP4	(example order)							

Your selection:

TG-DOS			



Instructions for dosing stations DOSADos

DOSATRONIC - dosing stations are pre-assembled complete systems ready for connection. They cover the majority of standard dosing requirements.

DOSADos dosing stations with a capacity of 60 to 1000 litres.

The dosing stations can be assembled from the following components:

PE dosing tank
Collection tank
(60 to 1.000 litres capacity)
(80 to 1.000 litres capacity)

- Mixing element
- Brackets for dosing pump
- Suction lance
- Pressure-relief valve
- Valve block
- Multipurpose valve
- Flow rate sensor
- Dosing pump

Please contact us if you need a different configuration to the standard dosing stations.

- * The O-rings (FPM or EPDM) and the hose connections are determined by the dosing pump selected.
- ** If you choose the option "collection tank", it is not possible to fit the dosing tank with a drainage system!
- *** Please inform us of the exact dosing medium
- When fitting an electric agitator, the dosing pump may be mounted on a wall bracket next to the dosing tank for lack of space.







Dosing station DOSADos with tank, 60 litre

Order co	ode										С	
Dosing st	tatio	n DOSA <i>E</i>	os (60								
		Tank ty	эе									
	Ν	DB 60, F	E, n	atur	al							
	S	DB 60, F	E, b	olack	(
			Сс	llec	tion tan	k						
		0	wit	thou	ı†							
		ABN	ΑB	80,	PE, nati	ural						
		ABS	ΑB	80,	PE, blac	ck						
				Mix	xing ele	men	t					
			0	wit	hout							
			Α	На	nd tam	per F	VC					
			В	Мс	anual sti	rrer F						
			С	Sta	ındard s	stirrer						
					Mount	ling/	brac	ket for	dosir	g pump		
				0	withou	ut pu	mp					
				S	other	dosir	ıg pı	ump if r	equir	ed by customer		
				٧	for V s	eries	sole	noid di	aphr	agm pumps		
				K	for K s	eries	sole	noid di	aphro	agm pumps		
				T	for T se	eries						
	A for AMS series solenoid diaphragm pumps											
				D	for DC	SMa	c m	otor dri	ven p	pump		
						Suc	tion	lance*				
					0	with	nout					
		ĭ			SL 2	SL 2	<u>- </u>					
	VI	L					Loc	k for so	rew	id		
						0	with	nout lo	ck			
9						1	with	n lock				
								Tank 6	empt	ying system		
							0	withou	Jt			
							1	PVC b	all vo	alve with hose connection d=16 mm**		
									Acc	cessories		
								0	with	nout		
		100						1	Pre	ssure-relief valve DHV		
								2	Val	ve block		
								3	Mul	ti-purpose valve MF		
								4	Flov	v sensor SEFL		
										Dosing pump choice		
									0	without		
										Please enter the order code for the se- lected pump***		
										1.00.00 pomp		
DS 60	N	ABN	0	1	SL2	0	0	1	0	(example order)		
						•						
Your sele	ectio	n				•	1		1	,		
DS 60												



Dosing station DOSADos with tank, 100 litre

Order co	ode										С				
Dosing s	tatio	n DOSA	os '	100											
		Tank ty	ре												
	Ν	DB 100,	PE,	natu	ıral										
	S	DB 100,	PE,	blac	k										
			Co	llec	tion tan	k									
		0	wi	thou	t										
		ABN	AB	120	, PE, na	tura									
		ABS	ΑB	120	, PE, blo	ack									
				Mix	king ele	mer	ıt								
			0	wit	hout										
			Α		nd tam										
			В	Мс	ınual sti	rrer F	PVC								
			С	Sta	ndard s	tirre	r unit	Тур	e DOSA	Mix					
					Mount	ing/	brac	ket f	for dosir	ng pump					
				0	withou	ıt pu	mp								
				S	other	dosir	ng pu	Jmp	if requir	red by customer					
				٧	for V s	eries	sole	noic	d diaphr	agm pumps					
	K for Ks							ries solenoid diaphragm pumps							
	T for Ts							noid	diaphro	agm pumps					
				Α	for AM	IS se	ries s	olen	noid dia	ohragm pumps					
				D	for DC	SMc	ic m	otor	driven p	oump					
						Suc	tion	land	ce*						
					0	wit	nout								
		¥													
	UT	Ì			SL 2	SL 2									
	A	A							r screw	lid					
						0			lock						
						1	with	n loc							
									_	ying system					
							0		hout						
							1	PV	C ball v	alve with hose connection d=16 mm**					
									Acces						
		100						0	withou	t					
								1	Pressur	e-relief valve DHV					
								2	Valve I						
		and the same of th						3	-	urpose valve MF					
								4	Flow se	ensor SEFL					
										Dosing pump choice					
									0	without					
										Please enter the order code for the se-					
										lected pump***					
DS 100	N	ABN	0	1	SL2	0	0	1	0	(example order)					
			_					_		, , , , , , , , , , , , , , , , , , , ,					
Your sele	ectio	n													
DS 100															



Dosing station DOSADos with tank, 200 litre

Order co	ode											С			
Dosing st	tatio	n DOSAD	os 2	200											
		Tank typ	ре												
	Ν	DB 200,	PE,	natu	ıral										
	S	DB 200,	PE,	blac	k										
			Co	llec	tion tan	k									
		0	wit	thou	t										
		ABN			, PE, na										
		ABS	AB	210	, PE, blo	ack									
					king ele	men	t								
			0		hout										
			Α		nd tam										
			В				rer PVC								
			С	Sta	ndard s	stirre	unit								
								ket	for dosin	ng pump					
				0	withou										
				S						ed by customer					
				٧						agm pumps					
				K						agm pumps	Ļ.				
				T						agm pumps					
	A for AMS series solenoid diaphragm pumps														
				D	tor DC	1			driven p	bump					
							tion		ce*						
					0		nout								
		ĭ			SL 2	SL 2	1								
	A	1							r screw	lid					
B.	1					0			lock						
2						I	WITI	n loc		•					
									n k emp r hout	ying system					
6							0			alve with hose connection d=16 mm**					
							'	ГV	Access						
								0	withou						
		-14						1		e-relief valve DHV					
								2	Valve k						
								3		urpose valve MF					
								4	1	ensor SEFL					
								<u> </u>		Dosing pump choice					
									0	without					
										Please enter the order code for the se-		<u>'</u>			
										lected pump***					
D0 000		45		l -			۱ ۵	_							
DS 200	N	ABN	0	1	SL2	0	0	1	0	(example order)					
Vour sol-	v	n													
Your sele	CTIO	n						l							
DS 200			<u> </u>												



Dosing station DOSADos with tank, 250 litre

Order cod	le										С
Dosing sta	tion I	OOSAD	os 25	0							
		Tank	type								
	Ν	DB 25	0, PE	, natı	ural						
	S	DB 25	0, PE	, blac	ck						
			Col	lectic	n tank						
		0	with	out							
		ABN	AB 4	400, F	E, nati	ural					
		ABS	AB 4	400, F	E, blac	ck					
				Mix	ing ele	men	t				
			0	with	out						
			Α	Han	ıd tam	per F	PVC				
			В	Mar	nual sti	rrer P	,VC				
			С	Star	ndard s	stirrer	unit	Туре	DOS	AMix	
					Mour	nting/	/brac	ket f	or do	sing pump	
				0	witho	ut pu	Jmp				
				S	other	dosi	ng p	ump	if rec	uired by customer	
				٧	for V	serie	s sole	noid	diap	hragm pumps	
				K	for K	series	s sole	noid	diap	hragm pumps	
				T	for T s	series	solei	noid	diap	hragm pumps	
				Α						iaphragm pumps	
				D	for Do	OSMo	ac m	otor	drive	n pump	
							tion I	ance	• *		
2					0		nout				
	1				SL 2	SL 2					
	A								scre	w lid	
						0		nout			
9						1	with	loc			
										ptying system	
6							0		nout		
							1	PV	1	I valve with hose connection d=16 mm**	
										cessories	
								0		nout	
								1		ssure-relief valve DHV	
		1						2		ve block	
								3		lti-purpose valve MF	
								4	FIO	w sensor SEFL	
										Dosing pump choice	
									0	without Please enter the order code for the se-	
										lected pump***	
DS 250	N	ABN	0	1	SL2	0	0	1	0	(example order)	
Your selec	tion										
DS 250											



Dosing station DOSADos with tank, 500 litre

Order cod	le										С
Dosing sta	tion I	DOSAL	os 50	00							
		Tank	type								
	Ν	DB 50	00, PE	, nat	ural						
	S	DB 50	00, PE	, bla	ck						
			Coll	ectio	n tank						
		0	with	out							
		ABN	AB 5	500, F	E, natu	ural					
		ABS	AB 5	500, F	E, blac	ck					
				Mix	ing ele	men	t				
			0		nout						
			Α		nd tam						
			В		nual sti						
			С	Stai	ndard :	stirrer	unit	Type	DOS	AMix	
								ket f	or do	sing pump	
				0	witho						
				S						juired by customer	
				٧						hragm pumps	
				K						hragm pumps	
				T						hragm pumps	
				Α						iaphragm pumps	
				D	for Do					n pump	
							tion I	ance	*		
					0		nout				
	V				SL 2	SL 2	1				
									scre	w lid	
						0		nout I			
9						1	Wifr	lock			
								I		ptying system	
6							0		nout		
							1	PVC		I valve with hose connection d=16 mm**	
										cessories	
								0		nout	
								1		ssure-relief valve DHV	
		1						2		ve block	
								3		lti-purpose valve MF w sensor SEFL	
								4	FIO		
									0	Dosing pump choice without	
									U	Please enter the order code for the se-	
										lected pump***	
DS 500	N	ABN	0	1	SL2	0	0	1	0	(example order)	
	_			_		_	_	_	_		
Your selec	tion	1		,	1			,			1
DS 500											



Dosing station DOSADos with tank, 1000 litre

Order code С Dosing station DOSADos 1000 Tank type DB 1000, PE, natural DB 1000, PE, black Collection tank 0 without ABN AB 1000, PE, natural **ABS** AB 1000, PE, black Mixing element 0 without Hand tamper PVC Α В Manual stirrer PVC С Standard stirrer unit Type DOSAMix Mounting/bracket for dosing pump without pump other dosing pump if required by customer for V series solenoid diaphragm pumps Κ for K series solenoid diaphragm pumps Τ for T series solenoid diaphragm pumps for AMS series solenoid diaphragm pumps D for DOSMac motor driven pumps Suction lance* 0 without SL 2 SL 2 Lock for screw lid without lock with lock Tank emptying system without PVC ball valve with hose connection d=16 mm** **Accessories** 0 without Pressure-relief valve DHV 1 2 Valve block Multi-purpose valve MF Flow sensor SEFL Dosing pump choice without Please enter the order code for the selected pump*** **DS 1000** Ν **ABN** 0 SL2 0 0 1 0 (example order) Your selection **DS 1000**



Injection valve IVN



General information

An injection valve consists of

- Body made of PVDF
- Sleeve nut, clamping ring and hose connection
- Ceramic valve ball
- Valve spring made of Hastelloy® C 276
- O-rings made of Viton®, or EPDM
- Opening pressure 0.3 bar, other pressures available on request

Order code

Order co	ue				
Injection	valve Type	IVN			
		Valve size			
	1/2"				
	3/4"				
		Hose connection [mm]	Conne	ction	
		4/6	1/2"		
		4/8	1/2"		
		6/8	1/2"		
		8/10	1/2"		
		8 / 10	3/4"		
		8/12	1/2"		
		12 / 18	3/4"		
		13/16	3/4"		
				O-ring	
			V	FPM (Viton®)	
			Е	EPDM	

IVN	1/2"	x 4/6	-V	(example order)	

Your selection

IVN			



Injection lances LIN



General information

- Installed length variable, max. 200 mm with PVDF,
 PVC longer possible, specify when ordering
- With or without shut-off ball valve made of PVC or PVDF
- Materials for sleeve nut, clamping ring, hose connection and injection lance: PVC/PP or PVDF/PVDF.
 Dosing lance:
 - made of PVC up to 40°C
 - or PVDF up to 80°C
- Ceramic valve ball
- Valve spring made of Hastelloy® C 276
- O-rings made of Viton®, or EPDM



Order code

Order Cod	ue						
Injection I	lance Typ	e LIN					
		Connection	size				
	1/2"	Male thread	d				
			Hose conne	ection			
		4/6	mm				
		4/8	mm				
		6/8	mm				
		8/10	mm (for P\	/DF – ho	se only		
		8/12	mm				
		12/18	mm				
				Body			
			PVC	Polyvin	yl chlor	ide	
			PVDF		ıyliden f		
			1		O-ring	•	
				V	FPM (V	"iton®)	
				Е	EPDM		i i
						Shut-off ball valve	
					0	without	
					1	PVC	
					2	PVDF	

LIN 1/2" 6/8 PVDF V 0 (example order)

Your selection

10013010	Tool selection										
LIN											

Viton® is a registered trademark of DuPont Dow Elastomers

Hastelloy® is a registered trademark of Haynes International Inc.



Foot valve Type FVAxial; optional with level switch



General information

A foot valve consists of

- Body made of PVDF
- Union nut, clamping ring and hose connection made of PVDF
- Ceramic valve ball
- O-rings made of Viton®, or EPDM
- Strainer basket filter and weight
- Axial mounted level switch can be operated as a normally-open (N.O.) or normally-closed (N.C.) contact - with 2 m lead and BNC plug

Order code

FVA

Oldel Col	u c							
Foot valve	e Type FVA							
		Valve size						
	1/2"							
			Hose o	connectio	n [mm]			
		4/6						
		4/8						
		6/8						
		8/10						
		8/12						
		12/18						
	O-ring:							
V FPM (Viton®)					ton®)			
			Е	EPDM				
					Level switch			
					Without			
				N.O.	Normally open contact (N.O.)			
				N.C.	Normally closed contact (N.C.)			
				1				
FVA	1/2"	4/6	٧	N.O.	(example order)			
			•	•		•		
Your selec	ction							



Suction lance Type SL 1



General information

For installation in a dosing tank or in a screw cap for a delivery container

- Material: PVC
- Hose connection (upwards) vertical
- Immersion depth adjustable
- 1 level switch with lead (2 m) and BNC plug

Order code

SL 1										
		Total	length [c	:m]						
	55									
	60									
	65									
	70									
	75									
	80									
			O-ring /	' sea	ling rings					
	V FPM (Viton®)									
		Е	E EPDM							
				Hos	se conne	ction:				
	6/8 6 x 8 mm									
				R	Recircu	ation/connection venting hose:				
						Cable connection				
					BNC	BNC plug				
					open	Lead end open				
SL1	55	٧	4/6	R	BNC	(example order)				

		SL1	55	٧	4/6	R	BNC	(example order)			
--	--	-----	----	---	-----	---	-----	-----------------	--	--	--

Your selection

01.4				
SL1				
-				



Suction lance Type SL 2



General information

For installation in a dosing tank or in a screw cap for a delivery container

- Material: PVC
- Hose connection, side
- Connection for recirculation/connection venting line
- Immersion depth adjustable
- 1 level switch with lead (2 m) and BNC plug

Order code

Ordor					
SL 2					
		Imme	ersion len	igth [cm]	
	55				
	60				
	65				
	70				
	75				
	80				
	85				
	90				
	95				
	100				
	105				
	110				
	115				
			O-ring /	sealing rings	S .
	V FPM (Vito			ton®)	
		Е	EPDM	1	
				Hose conne	ection:
			4/6	4 x 6 mm	
			4/8	4 x 8 mm	
			6/8	6 x 8 mm	
			8/10	8 x 10 mm	
			8/12	8 x12 mm	
					Cable connection
				BNC	BNC plug
				open	Open lead end

 SL2
 90
 V
 4/6
 BNC
 (example order)

Your selection

SL2



Suction lance Type SL 1-2



General information

For installation in a dosing tank or in a screw cap for a delivery container

- Material: PVC
- Hose connection (upwards) vertical
- Immersion depth adjustable
- 2 level switch with lead (2 m) and BNC plug

Order code

Order co	0.0									
SL 1 2										
		Total	length [c	:m]						
	55									
	60									
	65									
	70									
	75									
	80	0								
	85									
	90									
	, 0		O-ring	/ sea	ling rings					
		V	FPM (Vi							
		E	EPDM	1011-						
						ose connection:				
	4/6					4 x 6 mm				
	6/8					x 8 mm Recirculation/connection venting hose:				
						lation/connection venting hose:				
						Cable connection				
					BNC	BNC plug				
					open	Open lead end				
			411			/				

SL 1 2	55	٧	4/6	R	BNC	(example order)	
							·

Your selection

SI 1 2			
02 . 2			



Multifunction valve MF



General information

- Body made of PVDF and therefore highly suitable for most dosing chemicals
- Seals made of Viton® or EPDM
- Connection 3/8" or 1/2"
- The multifunction valve is suitable for dosing pumps with a dosing capacity up to 60 l/h.

Functions

The multifunction valve combines three different functions in one valve.

- **Pressure retention valve** for dosing into open tanks or when the dosing position is below the level of the dosing pump (suction elevating principle). The counter pressure can be adjusted from 1 5 bar with a rotary switch.
- **Pressure control valve** for dosing into pressure systems where a higher pressure than the max. permissible operating pressure of the dosing

pump can be expected. Pressure can be adjusted from 1 to 18 bar by a rotary switch. If the adjusted pressure is exceeded, the pressure control valve opens and discharges the dosing media back to the feed tank via a hose connection on the side.

• **Ventilating valve** – for venting the dosing head manually. The valve can be opened for venting by means of the rotary switch for the adjusting the overpressure function

Order code

Multifunctio	n valve MF						
		Body					
	PVDF	Polyvinyli	den fluoride				
			Connection	size			
		3/8	3/8"				
		1/2	1/2"				
		<u> </u>		Hose	con	nection	
			4/6	mm			
			4/8	mm			
			6/8	mm			
			8/10	mm			
			8/12	mm			
			4/8	mm			
					O-ri	ing	
				V	FP∧	1 (Viton®)	
				Е	EPD	M	
					D	Mounted directly on the dosing pump	
					W	Wall mounting	

MF PVDF 1/2 x 4/6 V W (example order)

Your selection

MF



Flow sensor SEFL



Flow sensor Type SEFL with thread



Flow sensor Type SEFL With screw connection

General information

The Type SEFL flow sensor is for monitoring solenoid diaphragm dosing pumps for correct dosing function.

Operation

The flow sensor is either directly screwed onto the pressure valve of the solenoid diaphragm-dosing pump or integrated into the dosing line of the dosing system by an additional hose connection.

An integrated magnetic sensor shoots up with every dosing pulse and activates an reed switch. The switch supplies the dosing pulse and through a signal cable it is passed on to the connected dosing pump or to another connected device which can process the signal. If one pulse (or a series of several pulses) fails, i.e. because there is air or gas inside the dosing line, the dosing pump can be stopped or a fault message can be generated.

The flow and the sensitivity of the sensor can be adjusted to the system conditions by an adjustment screw.

- Body made of PVDF; thus perfectly suitable for numerous dosing media
- Seals made of Viton® or EPDM
- Version options:
- with hose connection and wall mounting panel
- 3/8" or 1/2" thread with female thread for direct attachment to the dosing head
- Signal lead, length approx. 1.5 m with BNC plug



Order code

Flow sensor	Type S	EFL									
		Mounting	Mounting type								
	-	Dosing h	Dosing head								
	S	Hose co	Hose connection and wall mounting panel								
			Connection	on size							
		3/8"	3/8"								
		1/2"	1/2"								
				Hose o	lose connection						
			4/6	mm							
			4/8	mm							
			6/8	mm							
			8/10	mm							
			8/12	mm							
			13/16	mm							
			12/18	mm							
						O-ring					
				V	V FPM (Viton®)						
				D	Dutral	Dutral					
						More than 41 dosing rate					
					4+						
SEFL-	S	1/2"	x 4/6	V	-	(example order)					

Your selection

|--|



Pulsation damper SOIM





General information

Pulsation dampers are used for compensating pressure surges and pressure resistances which can occur on longer dosing lines.

An air/gas bubble builds up in the upper part of the pressure vessel. The gas bubble compensates the pressure surges caused by the oscillating movement of the diaphragms as much as possible and transforms it into a constant dosing flow.

- Material: PVC, PVDF only available for SOIM 3
- Scope of delivery includes:

holder made of stainless steel for wall mounting

Use the following equation to determine the correct size of the pulsation damper:

Volume (I) = <u>pressure (bar) x quantity to be dosed (I)</u>
500

The volume (I) given by the equation must be smaller than or equal to the volume of the pulsation damper SOIM

Technical specifications

Type SOIM		3	1
Volume	ml	90	500
Diameter D	mm	60	100
Height H1	mm	65	70
Height H2	mm	95	110
Connection	IG	3/8"	1/2"



Pulsation damper Type SOIM												
		Volume	Connect									
	90	90 ml	3/8"									
	500	500 ml	1/2"									
			Material:									
		PVC	PVC									
		PVDF	PVDF onl	y for So								
		,		Hose								
			3/8"	4/6 m	m							
			4/8 mm									
				6/8 m	m							
			1/2"	6/8 mm								
				8/10 r	nm							
				8/12 r	nm							
				12/18	mm							
		•			O-ring:							
				V	FPM (Viton®)							
				Е	EPDM							
MIOS	90-	PVC	3/8"		(example order)							
Your selection												
SOIM												

Viton® is a registered trademark of DuPont Dow Elastomers



Pressure retention and pressure relief valves



Materials

- Valve: PVC, PVDF, stainless steel Mat. 1.4571
- Diaphragm: Rubber, PTFE coated
- Spring: Stainless steel Mat. 1.4571

General information

Adjustable pressure retention and pressure relief valves are installed in dosing lines etc. They are designed for the following applications:

- They generate a constant counter pressure in dosing lines with open outlet and therefore increase the dosing accuracy
- They protect the dosing pump if the system pressure occasionally exceeds the max. permissible operating pressure of the dosing pump.
- They prevent the dosing tank from leaking through the dosing system if the injection point is lower than the dosing tank or if a vacuum is produced in the dosing line (so called jet suction effect).
- Nominal diameter DN 6, DN 10 and DN 15

Nominal pressure: PN 10Rating: 75 - 500 I/h

• max. temperature: PVC: 35°C

PVDF and stainless

steel: 50°C

• Connections 1/4" 3/8" and 1/2"

Operation

A diaphragm closes the valve by means of a pressure spring. The pressure spring is preloaded to the required max. operating pressure via a cylinder-screw. When this pressure is exceeded, the diaphragm is pushed upwards against the spring and partially opens the valve. Some of the dosing medium escapes to the pressure-free side of the valve, thus limiting the system pressure to the max. operating pressure.

Order code

Pressure retention and pre	essure reli	ef valve Type	DHV	
Connection	Nominal	diameter	max. flow rate	
1/4"	DN 6		75 l/h	
		Material		
	PVC			
	PVDF			
	SS	Stainless stee	el Mat. 1.4571	
Connection	Nominal	diameter	max. flow rate	
3/8"	DN 10		200 l/h	
		Material		
	PVC			
	PVDF			
	SS	Stainless stee	el Mat. 1.4571	
Connection	Nominal	diameter	max. flow rate	
1/2"	DN 15		500 l/h	
		Material		
	PVC			
	PVDF			
	SS	Stainless stee	el Mat. 1.4571	

PRV	1/2"	PVC	(example order)	

Your selection

PRV	
-----	--



Valve block Type AB

General information

Valve blocks are suitably pre-assembled fittings, either consisting of an pressure-relief and diaphragm shut-off valve or an pressure-relief and pressure retention valve. The dosing pump is connected between the two fittings via a T-piece. The discharge from pressure relief valve is fed back to the feed tank. The outlet of the pressure retention or diaphragm shut-off valve is connected to the injection point of the dosing system.



- Materials
 - Valve: PVC, PVDF, stainless steel Mat. 1.4571
 - Diaphragm: Rubber, PTFE coated
 - Spring Stainless steel Mat. 1.457150°C
- Connections: 1/4" 3/8" and 1/2"

Operation

- They generate a constant counter pressure in the dosing pipes with free outlet and therefore increase the dosing accuracy.
- They protect the dosing pump if the system pressure occasionally exceeds the max. permissible operating pressure of the dosing pump.
- They prevent the feed tank from leaking through the dosing system if the injection point is lower than the feed tank or if a vacuum is produced in the dosing pipe (so called jet suction effect).
- Nominal diameter: DN 6, DN10 and DN 15
- Nominal pressure: NP 10Rating: 75 500 l/h
- max. temperature: PVC: 35°C, PVDF and stainless steel:

Order code

ae											
ck Type AB											
Valve combin	nbination										
Pressure-relief	and diap	d diaphragm shut-off valve									
Pressure-relief	and press	ure retention	valve								
Connection	Nominal	diameter	max. flow								
1/4"	DN 6		75 l/h								
		Material									
	PVC										
	PVDF										
	SS	Stainless stee	el Mat. 1.4571								
Connection	Nominal	diameter	max. flow								
3/8"	DN 10		200 l/h								
		Material									
	PVC										
	PVDF										
	SS	Stainless stee	el Mat. 1.4571								
Connection	Nominal	diameter	max. flow								
1/2"	DN 15		500 l/h								
		Material									
	PVC										
	PVDF										
	SS	Stainless stee	el Mat. 1.4571								
	Connection Connection 3/8"	Ck Type AB Valve combination Pressure-relief and diap Pressure-relief and press Connection 1/4" Nominal DN 6 PVC PVDF SS Connection 3/8" Nominal DN 10 PVC PVDF SS Connection DN 15 PVC PVDF SS Connection 1/2" PVC PVDF SS	Ck Type AB Valve combination Pressure-relief and diaphragm shut-operssure-relief and pressure retention Connection 1/4" Nominal diameter DN 6 PVC PVDF SS Stainless stee Connection 3/8" Nominal diameter DN 10 Material PVC PVDF SS Stainless stee Connection 1/2" Nominal diameter DN 15 Connection 1/2" Nominal diameter DN 15 Material PVC PVDF SS Stainless stee Nominal diameter DN 15 Material PVC PVDF	Valve combination Pressure-relief and diaphragm shut-off valve Pressure-relief and pressure retention valve Connection 1/4" Nominal diameter max. flow 75 l/h Material PVC PVDF SS Stainless steel Mat. 1.4571 Connection 3/8" Nominal diameter max. flow 200 l/h Material PVC PVDF SS Stainless steel Mat. 1.4571 Connection 1/2" Nominal diameter max. flow 500 l/h Material PVC PVDF SS Stainless steel Mat. 1.4571 Connection 1/2" Nominal diameter max. flow 500 l/h Material PVC PVDF Material PVC PVDF Material PVC PVDF Material	Valve combination Pressure-relief and diaphragm shut-off valve Pressure-relief and pressure retention valve Connection 1/4" Nominal diameter max. flow DN 6 75 I/h Material PVC PVDF SS Stainless steel Mat. 1.4571 Connection 3/8" Nominal diameter max. flow DN 10 200 I/h Material PVC PVDF SS Stainless steel Mat. 1.4571 Connection 1/2" Nominal diameter max. flow DN 10 5 500 I/h Material PVC PVDF SS Stainless steel Mat. 1.4571 Connection 1/2" Nominal diameter max. flow DN 15 500 I/h Material PVC PVDF Material						

ABUM	1/2"	PVC	(example order)	

Your selection

|--|



Dosing tank Series DB-A

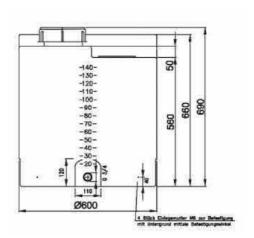


General information

Dosing tanks made from UV-stabilised polyethylene (PE) with handhole and screw lid; lockable (optional)

- Colour: natural or black
- With litre scale sintered onto the tank
- Moulded 3/4" threaded outlet socket (not drilled) with plug and seal (EPDM).
- 4 x moulded insert nuts M6 (outer DB A 35) for installing mounting brackets.





Technical specifications

Dosing tank Type DB A	35	75	100	140	200	250	300	400	500			
	1	35	75	100	140	200	250	300	400	500		
Diameter	mm	320	460	460	600	600	670	670	790	790		
Diameter Handhole d	DN	DN 70	DN 160									
Height	mm	500	625	785	660	880	885	1.030	985	1.180		
Weight	kg	3.0	5.5	6.5	9.0	11.0	13.0	15.5	20.0	23.5		



Order Co	Jue													
Dosing to	ank Typ	e DB A	L											
		Useal	ble vol	ume										
	35	Litre												
	75	Litre												
	100	Litre												
	140	Litre												
	200	Litre												
	250	Litre												
	300	Litre												
	400	Litre												
	500	Litre												
•			Colour											
		Ν	N Natural											
		В	B Black											
		Screw lid												
			S not lockable											
			Α	A lockable (not A 35)										
					3/4" -	- PVC-	discharge ball valve							
				-	withc	out								
				1	with									
						Mixe	r							
					-	witho								
					НМ	Mani	ual stamping mixer							
					HS	Mani	ual stirrer							
							Mounting bracket							
						-	without							
						1	with (4 pieces)							
			1											
DB-A	100	N	S	-	HS	-	(example order)							
Your sele	ection		ı	,		1								
DD 4	1	1	1	1	1	1								



Dosing tank Series DB-C

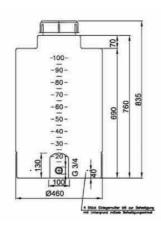


General information

Dosing tanks made from UV-stabilised polyethylene (PE) with handhole and screw lid; lockable (optional)

- Colour: natural or black
 - With litre scale sintered onto the tank
- Moulded 3/4" threaded outlet socket (not drilled) with plug and seal (EPDM).
- 4 moulded insert nuts M6 for installing mounting brackets





Technical specifications

Dosing tank Type DB-C	40	60	75	100	140	200			
Useable volume	1	40	60	75	100	140	200		
Diameter	mm	420	420	460	460	600	600		
Diameter Handhole d	ND	DN 70	DN 160						
Height mm		425	580	600	760	660	880		
Weight	kg	2.7	4.6	5.5	6.5	8.0	11.0		

Technical specifications

Dosing tank Type DB-C	250	300	400	500	800	1000				
Useable volume	1	250	300	400	500	800	1000			
Diameter mm		670	670	790	790	1.100	1.100			
Diameter Handhole d	ND	DN 160								
Height	mm	880	1.030	980	1.170	1.020	1.240			
Weight	kg	13.0	15.5	20.0	23.5	34.0	37.0			



Dosing	tank Typ	e DB C	:									
		Useak	ole vol	ume								
	40	Litre										
	60	Litre										
	75	Litre										
	100	Litre										
	140	Litre										
	200	Litre										
	250	Litre										
	300	Litre										
	400	Litre										
	500	Litre										
	800	Litre										
	100	Litre										
			Colou	ır:								
		Ν	Natur	al								
		В	Black									
				Screw lie	d							
			S	not lock	able							
			Α	lockable		A 35)						
							discha	rge ball valve				
				-	witho							
				1	with							
				<u> </u>		Mixe	,					
					_	without						
					НМ			mping mixer				
					HS		val stirre					
					110	Maria		ting bracket				
						_	withou					
						1		4 pieces)				
						ı	VVIII (2	+ piecesj				
DB-C	100	N	S	_	HS	_	lexam	nple order)				
DD-C	100	14	3	_	113	_	levall	ipio ordor)				
Your sele	ection											
DB-C												



Dosing tank Series DB-E

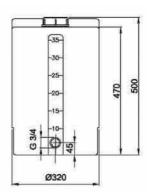


General information

Dosing tanks made from UV-stabilised polyethylene (PE) with handhole and screw lid; lockable (optional)

- Colour: natural or black
- With litre scale sintered onto the tank
- Moulded 3/4" threaded outlet socket (not drilled) with plug and seal (EPDM).





Technical specifications

Dosing tank Type DB E		35	60	100	200	300	500	750	1000
Useable volume	I	35	60	100	200	300	500	750	1,000
Diameter	mm	320	420	450	550	655	770	970	1,080
Diameter Handhole d	DN	DN 70	DN 160						
Height	mm	500	640	810	1,030	1,110	1,230	1,170	1,260
Weight	kg	2,5	4.4	6.2	10.0	14.0	22.0	32.0	37.0



Order Co	ode												
Dosing to	ank Typ	e DB E											
		Usea	ble vol	ume									
	35	litre											
	60	litre											
	100	litre											
	200	litre											
	300	litre											
	500	litre											
	750	litre											
	1000	litre											
			Color	ır									
		Ν	Natur	al									
		В	Black	ılack									
				Screw li	d								
			S	not lock	able								
			Α	lockable	e (not	E 35)							
					3/4" -	- PVC-	discha	rge ball valve					
				-	withc	out							
				1	with								
						Mixe	r						
					-	witho	out						
					НМ	Mani	ual star	mping mixer					
					HS	Manı	ual stirre	er					
							Moun	ting bracket					
						-	withou	ut					
						1	with (4	4 pieces)					
DB-E	100	N	S	-	HS	-	(exam	nple order)					
Your sele	ection												
DB-E													



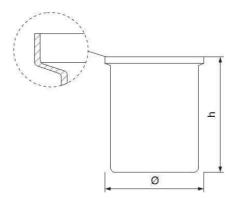
Safety bunds Series SBO



General information

Safety bunds made of UV stabilised polyethylene (PE), for housing the Type dosing tank DB-A, DB-C and DB-E

- Colour: natural or black
- With litre scale sintered onto the tank
- Two mounting surfaces on the side for mounting brackets for mounting on the bottom



Technical specifications

Feed tank Type SBO	60	80	100	120	150	200	
Useable volume	1	60	80	100	120	150	200
Diameter	mm	420	500	450	500	650	550
Height	mm	550	540	740	700	540	960
Weight	kg	4.4	5.0	5.7	6.7	7.9	9.0

Technical specifications

Feed tank Type SBO	210	300	400	500	750	1000	
Useable volume	1	210	300	400	500	750	1000
Diameter	mm	655	660	770	860	1.050	1.150
Height	mm	730	995	960	980	980	1.080
Weight	kg	9.3	12.0	16.0	19.0	28.0	34.0



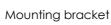
Feed tar	nk Type	SBO								
		Useal	ble vol	ume						
	60	Litre								
	80	Litre								
	100	Litre								
	120	Litre								
	150	Litre								
	200	Litre								
	210	Litre								
	300	Litre								
	400	Litre								
	500	Litre								
	750	Litre								
	1000	Litre								
			Colou	r						
		Ν	Natur	al						
		В	Black							
SBO	100	N								
Your sele	ection									
SBO				·						·



Accessories for dosing tank DB









Screw lid, lockable

Manual stamping mixer	
Manual stirrer	
Mounting bracket (VPE = 4 units)	
Screw lid ND 160, lockable	

Other accessories available on request:

- Threaded couplers
- Threaded nipple
- Flange
- Flange bushing with loose flange etc.



Standard stirrer unit Type DOSAMix



General information

Standard stirrer units are designed for blending liquids with a max. viscosity of 500 mPas in Series DB feed tanks.

They are fitted with a balanced agitator shaft made of stainless steel, Mat. 1.4571, which is PVC coated. The mixing element made of PVC can be unscrewed.

- Clockwise rotation, pushing away from the drive.
- Operating conditions:
 - pressureless operation
 - Max. temperature of medium 55°C
- No media which emit gas.
- Two motors are available:
 - 400 V, 50/60 Hz, 3 Ph, or
 - 230 V, 50/60 Hz, 1 Ph, with capacitor,
 each with degree of protection IP 55, Iso. Class F (resistant to tropical conditions)
- A choice of four speeds is available:
 - MIXV H without gearbox,

rotation speed 1,400 rpm

- MIX4S with flange gearbox,

rotation speed 400 rpm

- MIX2 and MIX8 with flange gearbox on the side,

choice of rotation speed, 65 rpm

with 200 rpm or 400 rpm

MIXV8 MIX4S MIX8

Technical specifications

Technical specifications											
Standard stirrer unit	Motor power rating	Voltage	Speed	Shaft lengths	Propeller Ø	Weight					
Type MIX	KW	V	rpm	mm	mm	kg					
MIXV8 MON	0.09	230	1.400	630-730-830-930	70	6					
MIXV8 TRI	0.09	400	1.400	630-730-830-930	70	6					
MIXV4 MON	0.18	230	1.400	630-730-830-930	90	8					
MIXV4 TRI	0.18	400	1.400	630-730-830-930	90	8					
MIXV2 MON	0.37	230	1.400	930-1100-1200	90	9					
MIXV4 TRI	0.37	400	1.400	930-1100-1200	90	9					
MIX4S MON	0.18	230	400	630-730-830-930	200	8					
MIX4S TRI	0.18	400	400	630-730-830-930	200	8					
MIX2 MON	0.37	230	65 o. 200 o. 400	630-730-830-930	200	9					
MIX2 TRI	0.37	400	65 o. 200 o. 400	630-730-830-930	200	9					
MIX8 MON	0.09	230	65 o. 200	630-730-830-930	150	6					
MIX8 TRI	0.09	400	65 o. 200	630-730-830-930	150	6					
MIX4 MON	0.18	230	65 o. 200	630-730-830-930	200	8					
MIX4 TRI	0.18	400	65 o. 200	630-730-830-930	200	8					



Standard stir	rer unit Typ	oe MIX				
		El. pov	ver [kW]	, Rotatio	n speed [rpm]	
	V8	0	.09	1	.400	
	V4	0	.18	1	.400	
	V2	0	.37	1	.400	
	4 S	0	.18		400	
	2	0	.37	65/200	/400	
	8	0	.09	65	/400	
	4	0	.18	65	/400	
•			Power	supply		
		1 230 V,				
		0	400 V,	50/60 Hz		
				Shaft le	ength [mm]	
			6		630	
			7		730	
			8		830	
			9		930	
			11	1	.100 (Type H2 only)	
			12	1	.200 (Type H2 only)	
					Rotation speed [rpm]	
				65		
				200		
				400		
				1400		
MIX	2	-1	-8	400	(example order)	

MIX 2 -1 -8 400 (example order)	
---------------------------------	--

Your selection

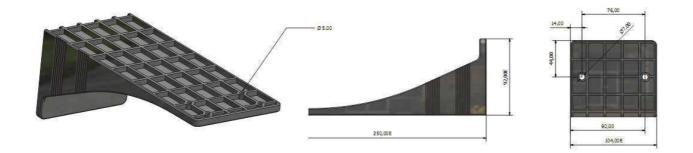
MIX	
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Wall holders / mounting brackets

for solenoid diaphragm dosing pumps

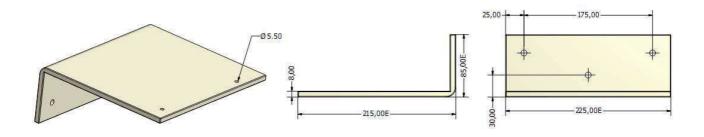
STF made from PP: For solenoid diaphragm dosing pumps Series: F, FA, FMS and FMSA



Order code

STF

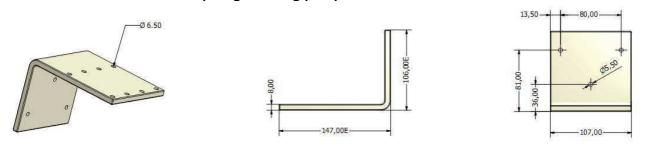
STT made from PVC: For solenoid diaphragm dosing pumps Series: G, GMS, T and TMS



Order code

STT

STK made of PVC: For solenoid diaphragm dosing pumps Series: H, HMS, HA, HMSA, K, KA, KMS and KMSA

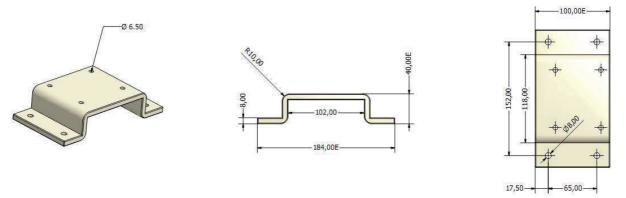


Order code

STK



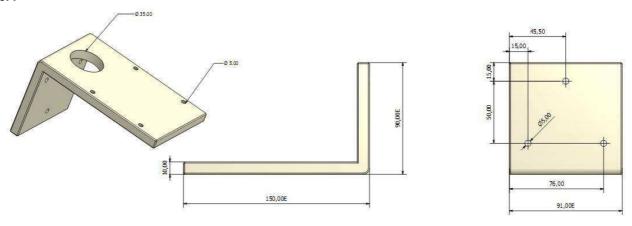
STK1 made from PVC: For solenoid diaphragm dosing pumps Series: H, HMS, HA, HMSA, K, KA, KMS and KMSA



Order code

STK1

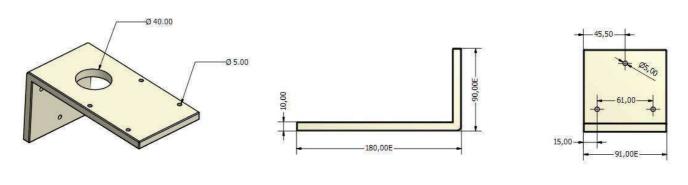
STK2 made from PVC: For solenoid diaphragm dosing pumps Series: H, HMS, HA, HMSA, K, KA, KMS and KMSA



Order code

STK2

STK3 made from PVC: For solenoid diaphragm dosing pumps Series: H, HMS, HA, HMSA, K, KA, KMS and KMSA

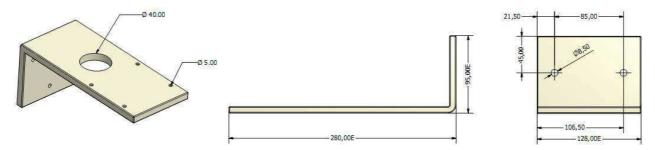


Order code

STK3



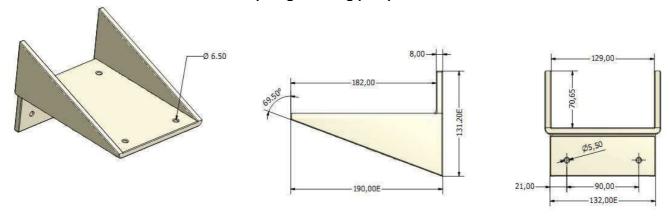
STK4 made from PVC: For solenoid diaphragm dosing pumps Series: H, HMS, HA, HMSA, K, KA, KMS and KMSA



Order code

STK4

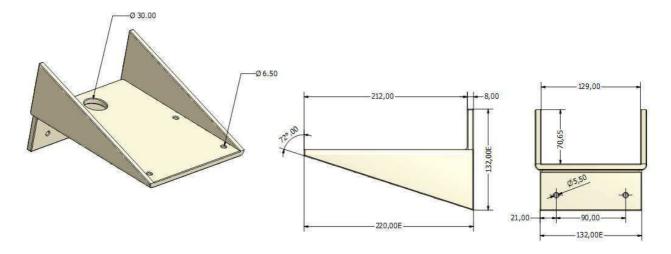
STAMS made from PVC: For solenoid diaphragm dosing pumps Series: CMS, CMSA, AMS und AMSA



Order code

STAMS

STAMS2 made from PVC: For solenoid diaphragm dosing pumps Series: CMS, CMSA, AMS und AMSA

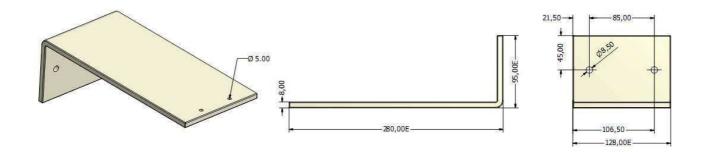


Order code

STAMS2



STV made from PVC: For solenoid diaphragm dosing pumps Series: V, VA, VMS und VMSA



Order code

STV

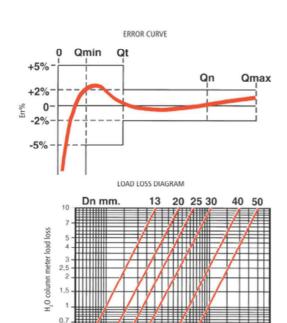


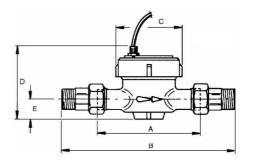
Impeller contact-water meter



General information

- Impeller water meter made of high-quality brass diecasting, interior parts made of plastics
- Structural dimensions and connection dimensions according to DIN
- Different versions available: wet-running meter (Series CT ...) and dry-running meter (Series CA ...), i.e. with dry meter chamber
- With roller type counter, min. reading 0.1 L (DN 50: 0.5 L), max. reading 10⁵ m³ and reed contact output, max. contact load 24 V, 100 mA
- Leads available in various standard lengths with BNC plug or open-ended
- Different versions available:
 - for cold water up to 30° C
 - For warm water up to 90° C
 - for desalinated water and condensate (Teflon coated inside and outside)
- Contact-water meter <u>including</u> connection threads and seals
- Certificate of official calibration on request
- Max. voltage 250 VAC, 200 VDC
- Max. current 1.0 A
- Max. power 10 VA
- Insulation voltage 4000 Vac







Technical specifications:

Serie CT/CA		15	20	25	30	40	50		
Connection size	DN inch	DN 15 1/2"	DN 20 3/4"	DN 25 1"	DN 32 1 1/4"	DN 40 1 1/2"	DN 50 2"		
Nominal flow Qn**	m³	1.5	2.5	3.5	5	10	15		
Max. flow Q _{max}	m³	3	5	7	10	20	30		
Minimum inflow	l/h	10	15	20	20	25	50		
Max. operating pressure	bar	16							
Pressure loss at Q _{max}	bar		1						
	1 Litre								
Pulse interval *	10 Litre	1 – 2 – 4	Impulses 1 - 2 - 4	Impulses 1 – 2 – 4	Impulses 1 - 2 - 4	Impulses 1 - 2 - 4	Impulses 1 - 2 - 4		
Specified in order code	100 Litre	1-2-4	1-2-4	1 – 2 – 4	1-2-4	1-2-4	1-2-4		
	1000 Litre								
Installed length without screwed joints	A Mm	110	130	160	160	200	300		
Installed length with screwed joints	B mm	190	228	260	280	340	455		
Width	C mm	80	80	100	100	110	108		
Height	D mm	110	110	132	132	137	131		
Weight with screwed joints	kg	0.85	1.1	1.75	2	3.46	6.75		

^{*} Standard design, other pulse sequences available on request ** Nominal flow $Q_n = \frac{1}{2}$ Max. flow Q_{max} (according to calibration requirements)



Order Code

Serie CT	./CA	15	20	25	30	40	50
	Connection size	DN 15 1/2"	DN 20 3/4"	DN 25 1"	DN 32 1 1/4"	DN 40 1 1/2"	DN 50 2"
	Price						
CTFI	Wet running meter for cold water up to 30° C						
СТСІ	Wet running meter for warm water up to 90° C						
CATFI	Dry running meter for cold water up to 30°C						
CATCI	Dry running meter for hot water up to 90°C						
CTFIT	Teflon coated for cold water up to 30°C						
СТСІТ	Teflon coated for hot water up to 90°C						
	Lead length: *2 m *Standard 5 m 10 m >10 m, pro m						
	Lead connection BNC – Stecker Kabelende offen						

CTFI - 20 - 1 - 4 - 2 - BNC	Example order Wet running meter for cold water up to 30° C, connection size DN 20, 3/4", Impulse interval 4 Impulses/Litre. Lead length 2 m, with BNC – plug connector
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Your selection:

CTFI -			
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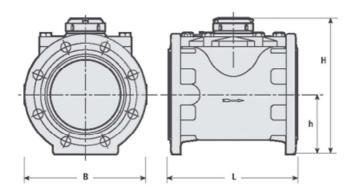


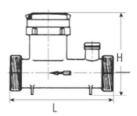
Woltmann – contact-water meter, Series CW

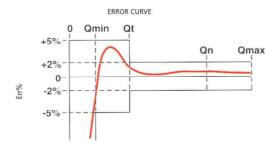


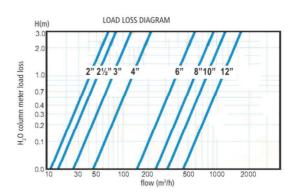
General information

- Woltmann water meter made of high-quality cast iron, lacquer coated inside and outside, interior parts made of plastic
- Dimensions and flange dimensions from DN 50 to DN 300
- Dry-running meter, i.e. with dry meter chamber
- With roller type counter and reed contact output, max. contact load 24 V, 100 mA
- Leads available in various standard lengths with BNC plug or open-ended
- Operating temperature: warm water up to 130° C;
- max. operating pressure 16 bar
- Certificate of official calibration on request
- Max. voltage 250 VAC, 200 VDC
- Max. current 1.0 A
- Max. power 10 VA
- Insulation voltage 4000 Vac











Technical specifications:

Serie CW		50	65	80	100
Connection size		DN 50	DN 65	DN 80	DN 100
Nominal flow Qn**	m³	15	25	40	60
Max. flow Q _{max}	m³	100	100	170	300
Trägheitsdurchfluss	m³/h	0.30	0.40	0.40	0.60
Übergangsdurchfluss	m³/h	0.45	0.75	0.8	1,5
Minimum inflow	m³/h	1.0	1.4	1.4	2,0
Max. operating pressure	bar		1	6	
Pressure loss at Q _{max}	ressure loss at Q _{max} bar approx. 1.0				
	10 Liter	Impulse 1 - 2 - 4	Impulse 1 - 2 - 4	Impulse 1 - 2 - 4	Х
Pulse interval *	100 Liter	Impulse 1 – 2 – 4			
Specified in order code	1000 Liter	Impulse 1 – 2 – 4	Impulse 1 - 2 - 4	Impulse 1 - 2 - 4	Impulse 1 – 2 – 4
	10000 Liter	X	X	X	Impulse 1 – 2 – 4
Display Roller-type counter	min. Itr max. m³	1 10 ⁶	1 10 ⁶	1 10 ⁶	10 10 ⁷
Installed length, L	mm	200	200	230	250
Installed height, H	mm	214	228	234	250
Flange diameter, B	mm	165	185	200	200
Height, h	mm	70	84	90	106
Weight	kg	12.0	13.0	15.5	19.0

^{*} Standard design, other pulse sequences available on request

Technical specifications:

Serie CW		150	200	250	300
Connection size		DN 150	DN 200	DN 250	DN 300
Nominal flow Qn**	m³	150	250	400	600
Max. flow Q _{max}	m³	410	730	1400	2000
Inertial flow	m³/h	1.00	2.00	6.00	7.00
Transition flow	m³/h	2.5	7.0	10.0	11.5
Minimum inflow	m³/h	3.5	15.0	13.0	40.0
Max. operating pressure	bar		1	6	
Pressure loss at Q _{max}	bar		appro	ox. 1.0	
	10 Litre	X	X	X	X
Pulse interval *	100 Litre	Impulses 1 – 2 – 4	X	X	X
Specified in order code	1000 Litre	Impulses 1 – 2 – 4	Impulses 1 - 2 - 4	Impulses 1 - 2 - 4	Impulses 1 - 2 - 4
	10000 Litre	Impulses 1 - 2 - 4	Impulses 1 - 2 - 4	Impulses 1 - 2 - 4	Impulses 1 – 2 – 4
Display Roller-type counter	min. Itr max. m³	10 10 ⁷	100 108	100 10 ⁸	100 10 ⁸
Installed length, L	mm	300	350	450	500
Installed height, H	mm	310	338	438	465
Flange diameter, B	mm	283	340	4096	460
Height, h	mm	130	158	258	330
Weigth	kg	12.0	13.0	15.5	19.0

^{*} Standard design, other pulse sequences available on request

^{**} Nominal flow $Q_n = \frac{1}{2}$ Max. flow Q_{max} (according to calibration requirements)



Order Code A

Serie CW .	•••	50	65	80	100
		DN 50	DN 65	DN 80	DN 100
CWFA	Dry running meter for cold water up to 60°C				
CWCA	Dry running meter for hot water up to 130°C				
CWFAT	Teflon-coated Dry running meter for cold water up to 60° C				
	Lead length: *2 m *Standard 5 m 10 m >10 m, pro m				
	Lead connection: BNC – plug Lead-end open				

CWFA - 100 - 100 - 4 - 2 - BNC	Example order: Wet running meter for cold water up to 60° C, Connection size DN 100, Impulse interval 4 Impulses/ 100 liter. Lead length 2 m, with BNC – plug connection
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Your selection:

CWFA				
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Order code

Serie CW.	Serie CW		200	250	300
		DN 150	DN 200	DN 250	DN 300
CWFA	Dry-running meter für kaltes Wasser up to 60° C				
CWCA	Dry-running meter for warm water up to 130° C				
	Lead length: *2 m *Standard 5 m 10 m >10 m, pro m				
	Lead connection: BNC – Plug Lead-end open				

	Example order:	
CWEA	CWFA - 150 - 100 - 4 - 2 - BNC	Wet running meter for cold water up to 60° C, connection size
CWFA -		DN 150, Impulse interval 4 Impulses/ 100 litre
		Lead length 2 m, mit BNC – plug connection

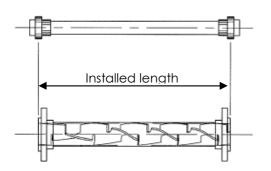
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CWFA				



Static line blender Type SRMK made of plastic

for media which are free of solids



General information

Static line blender for intense blending of two liquid media (without solids) in flow. The mixer insert is a slotted helix. The system operates without moving parts.

- Materials and max. temperatures:
 - PVC up to nominal pressure NP 16, up to max. 40° C
 - PP and PE up to nominal pressure NP 10, up to max. 60° C
 - Stainless steel Mat. 1.4301 up to nominal pressure NP 10, to max. 80°C

Order code

Series SRMK											
		Mate	Material								
	PVC	PVC	PVC								
	PP	PP									
	PE	PE									
<u>-</u>			Conn	ection							
		KB	Glue	socket							
		IG	Femo	lle thread							
				Nominal diameter ND	Diameter mm	Installed length					
				mm							
			15	15	20	360					
			20	20	25	360					
			25	25	32	390					
	32 32 40 405										
	40 40 50 460										
	50 50 63 475										
			65	65	75	610					

SRMK	PVC	KB	50	(example order)	

Your se	lection			
SRMK				



Series S	RMK										
		Mate	Material								
	PVC	PVC									
	PP	PP									
	PE	PE									
_			Conn	ection							
		FL	Flang	е							
				Nominal diameter ND	Diameter mm	Installed length					
				mm							
			15	15	20	360					
			20	20	25	360					
			25	25	32	390					
			32	32	40	405					
			40	40	50	460					
			50	50	63	475					
			65	65	75	610					
			80	80	90	750					
			100	100	110	900					
			125	125	140	1.000					
			150	150	160	1.000					

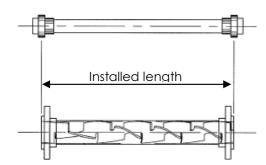
SRMK	PVC	FL	50	(example order)	
					-

Your selection



Static line blender Type SRME made of stainless steel

for media which are free of solids



General information

Static line blender for intense blending of two liquid media (without solids) in flow. The mixer insert is a slotted helix. The system operates without moving parts.

- Materials and max. temperatures:
 - Stainless steel Mat. 1.4301 up to nominal pressure NP 10, to max. 80°C

Order code

Series SR/	ME					
		Mate	rial			
	SS	Stainl	ess stee	el 1.4301		
			Conn	ection		
		AG	Male	thread		
		IG	Fema	lle thread		
				Nominal diameter ND	Installed length mm	
			15	15	360	
			20	20	360	
			25	25	390	
			32	32	405	
			40			
			50	50	475	

SRME	SS	AG	25	xample order)				
Your sel	ection							
SRME								



Series S	SRME					
		Mate	rial			
	SS	Stainl	ess stee	el 1.4301		
			Conn	ection		
		FL	Flang	е		
				Nominal diameter ND	Installed length mm	
			15	15	360	
			20	20	360	
			25	25	390	
			32	32	405	
			40	40	460	
			50	50	475	
			65	65	610	
			80			
			100	100	900	

SRME	SS	FL	25	(example order)		
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Your selection

CDAAF			
2KWF			



Static line blender Type FSHM

for media which contain solids



General information

Static line blender for intense blending of two liquid media (with solids) in flow. The blending insert consists of deflectors. The system operates without moving parts.

- Materials: PP and PE, Colour: natural
- Max. operating pressure at nominal pressure NP 10,
- Maximum operating temperature: at 60°C
- Connection: loose flange

Order code

Series FSHM											
		Mate	Naterial Control of the Control of t								
	PP	PP									
	PE	PE									
			Connection								
		FL	loose	oose flange							
				Nominal diameter ND	Installed length mm						
			50	50	475						
			65	65	610						
		80 80 750									
	100 100 900										

FSHM	PVC	FL	50	(example order)	
Your sel	ection				
FSHM					

Order Code

Series FSHM VA	Series FSHM VA											
	Mate	Material										
VA	Stainl	Stainless Steel VA 1.4541										
		Conn										
	FL	Fixed	flange									
			Nominal diameter DN	Installed length mm								
		50	50	475								
		65	65	610								
		80	80	750								
	100 100 900											

FSHM	VA	FL	50	(Example order)	
					-

Your selection:

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Preselection Guide for Pump Heads

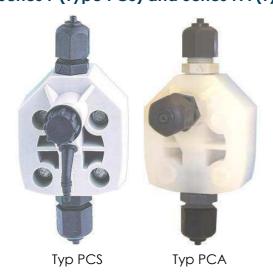
First, search within the table for the desired series name of your metering pump. Then choose the desired material for the type of replacement pump head. As additional information, you will find the pump capacity.

				Materia	
Serie	l/h	bar	Acryl	PVDF	SS
				Pumpenko	pf
	1	20		J	
	2	15		K	
	2	18		K	
	4	10		K	
	4	15		K	
	4	18		K	
	5	10		K	
	5	15		K	
V/ VMS	6	7		K	
	8	4		K	
	10	3		K	
	10	5		K	
	10	10		K	
	12	5		K	
	16	1		K	
	17	2		K	
	1	15		KA	
	2	10		KA	
	2	18		KA	
	3	15		KA	
VA/	3,4	10		KA	
VMSA	4	7		KA	
	5,5	4		KA	
	7	3		KA	
	7	10		KA	
	7,5	5		KA	
	9	5		KA	
	13	2		KA	
	13,5	1		KA	
	1	20	Α	I	Α
K / KMS	2	18	В	L	В
	5	10	В	L	В
	8	8	В	L	В
	10	5	В	L	В
	18	2	G	М	G

			Material			
Serie	l/h	bar	Acryl	PVDF	SS	
				Pumpenk	opf	
	1	18	AA	LA		
KA/	3	15	ВА	LA		
KMSA	5	8	ВА	LA		
	7	5	ВА	LA		
	13	2	GA	MA		
	5	20	В	L		
	15	5	D	Z		
T / TMS	20	4	D	Z		
	30	3	Е	S		
	50	1	Е	S		
	100	0	F	T		
G/	1	6	BP			
GMSD	3	4	CP			
Polymer	8	2	DP			
	20	1	EP			
	25	0,5	FP			
	5	25	В	L	В	
AMS /	10	15	С	М	С	
AMSD	20	7	D	Ν	D	
	40	3	Е	S	Е	
	60	2	F	T	F	
	3,2	25	ВА	LA		
AMSA /	6	15	CA	MA		
AMSAD	13	7	DA	NA		
	30	3	EA	SA		
	38,5	2	FA	TA		
	2	8	BP			
CMS-/	4	6	CP			
CMSD-	10	4	DP			
Polymer	25	2	EP			
	40	1	FP			



Pump heads for solenoid diaphragm dosing pumps Series F (Type PCS) and Series FA (Type PCA) self-venting



General information

- Pump head made of PP or PVDF
- Suction and delivery valve with hose connection, and manual vent valve. For dosing pumps with selfventing and automatic vent valve Connection sizes 3/8"x 4/6 mm hose connection
- O-ring to seal the pump head housing
- 4-pump head screws made of stainless steel
- Pump head type PCS for dosing pumps Series F and FMS
- Pump head type PCA for dosing pumps series FA and FMSA with self-venting

Order code

Pump he	ead						
PSC	PCS						
PCA	PCA with	n self-venti	ng				
		Valve siz	е				
	3/8"	3/8"					
			Hose conne	ction			
		4x6	mm				
				Mate	rial pump head	valves	
			PP	PP		PP	
			PVDF+PP	PVDF		PP	
			PVD	PVDF		PVDF	
					O-ring		
				V	FPM (Viton)		
				Е	EPDM		

PCS	3/8"	4x6	PVDF	V	(example order)	
						•

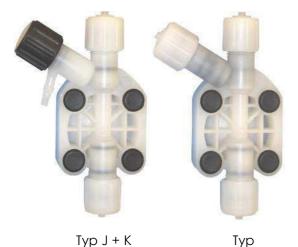
Your selection

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Series V and Series VA (with self-venting) made of PVDF



General information

- Pump head made of PVDF
- Suction and delivery valve with hose connection, and manual venting valve. For dosing pumps with selfventing and automatic venting valve connection sizes 3/8" x (see table) mm hose connection
- O-ring to seal the pump head housing
- Pump head type J and K for dosing pumps series V and VMS
- Pump head type KA for dosing pumps series VA and VMSA with self-venting

Order code

KA

Your selection PCS

3/8"

Order co	ode												
Pump he	ead												
	Pump he	Pump head											
J	J												
K	K												
KA	KA with	self-venting	g										
		Valve siz	e										
	3/8"	3/8"											
			Hose conne	ection									
		4x6	mm										
		4/8	mm										
		6/8	mm										
				Mate	rial pump head	valves							
			PVD	PVDF		PVDF							
					O-ring								
				V	FPM (Viton)								
				Е	EPDM								
					•		•						

(example order)

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PVDF

6/8



Series H, HA, HMS, HMSA, G, GMS, CMS, CMSA made of PP



General information

- Pump head made of PP
- Suction and delivery valve with hose connection, and manual venting valve.
 - For dosing pumps with self-venting and automatic venting valve
 - Connection sizes 3/8" or $\frac{1}{2}$ " x (see table) mm hose connection
- O-ring to seal the pump head housing

Order code

Pump head PP				Material
PP	Valve size	Hose connection [mm]	O-ring	PP
Α	3/8"	4 x 6 / 4 x 8	Viton / EPDM	
В	3/8"	4×6 /4×8	Viton / EPDM	
С	3/8"	4 x 6 / 4 x 8	Viton / EPDM	
D	1/2"	4 x 6 / 4 x 8 / 6 x 8	Viton / EPDM	
E	1/2"	8 x 10 / 8 x 12	Viton / EPDM	
F	1/2"	8 x 10 / 8 x 12	Viton / EPDM	
G	1/2"	6 x 8	Viton / EPDM	

Example order

PP-A	3/8"	4/6	Viton	
				-

Your selection							



Series H, HA, HMS, HMSA, K, KA, KMS, KMSA, G, GMS, T, TMS, CMS, CMSA, AMS and AMSA made of acrylic



General information

- Pump head made of acrylic
- Suction and delivery valve with hose connection, and manual venting valve.
 - For dosing pumps with self-venting and automatic venting valve
 - Connection sizes 3/8" or $\frac{1}{2}$ " x (see table) mm hose connection
- O-ring to seal the pump head housing

Order code

Pump head AC					Material	
Standard	self-venting	Viscosity up to 8000 CPS	Valve size	Hose connection mm	O-ring	Acrylic (PMMA)
Α			3/8"	4 x 6 / 4 x 8	Viton / EPDM	
В			3/8"	4x6/4x8	Viton / EPDM	
С			3/8"	4 x 6 / 4 x 8	Viton / EPDM	
D			1/2"	6 x 8	Viton / EPDM	
Е			1/2"	8 x 10 / 8 x 12	Viton / EPDM	
F			1/2"	8 x 10 / 8 x 12	Viton / EPDM	
G			1/2"	6 x 8	Viton / EPDM	
	AA		3/8"	4 x 6	Viton / EPDM	
	BA		3/8"	4x6/4x8	Viton / EPDM	
	CA		3/8"	4x6/4x8	Viton / EPDM	
	DA		1/2"	6 x 8	Viton / EPDM	
	EA		1/2"	8 x 10 / 8 x 12	Viton / EPDM	
	FA		1/2"	8 x 10 / 8 x 12	Viton / EPDM	
	GA		1/2"	6 x 8	Viton / EPDM	
		B LPV	1/2"	8 x 12 X 16 x 22	Viton / EPDM	
		C LPV	1/2"	8 x 12 X 16 x 22	Viton / EPDM	
		D LPV	1/2"	8 x 12 X 16 x 22	Viton / EPDM	
		E LPV	1/2"	8 x 12 X 16 x 22	Viton / EPDM	
		F LPV	1/2"	8 x 12 X 16 x 22	Viton / EPDM	

Example order

AC A	3/8"	4/6	Viton	
Your selection				
Tour selection		T		



Series H, HA, HMS, HMSA, K, KA, KMS, KMSA, G, GMS, T, TMS, CMS, CMSA, AMS and AMSA made of PVDF



General information

Spare parts kits consisting of:

- Pump head made of PVDF
- Suction and delivery valve with hose connection, and manual venting valve.
 For dosing pumps with self-venting and automatic venting valve Connection sizes 3/8" or ½" x (see table) mm hose connection
- O-ring to seal the pump head housing

Order code

Pump head PVDF					Material
Standard	Self-venting	Valve size	Hose connection mm	O-ring	PVDF
Α		3/8"	4 x 8	Viton / EPDM	
В		3/8"	4x6/4x8/6x8	Viton / EPDM	
С		3/8"	4x6/4x8/6x8	Viton / EPDM	
D		1/2"	6 x 8	Viton / EPDM	
E		1/2"	8 x 10 / 8 x 12	Viton / EPDM	
F		1/2"	8 x 10 / 8 x 12	Viton / EPDM	
G		1/2"	6 x 8	Viton / EPDM	
	AA	3/8"	4 x 8	Viton / EPDM	
	BA	3/8"	4x6/4x8/6x8	Viton / EPDM	
	CA	3/8"	4x6/4x8/6x8	Viton / EPDM	
	DA	1/2"	6 x 8	Viton / EPDM	
	EA	1/2"	8 x 10 / 8 x 12	Viton / EPDM	
	FA	1/2"	8 x 10 / 8 x 12	Viton / EPDM	
	GA	1/2"	6 x 8	Viton / EPDM	

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Order code

Pump head PVDF Standard Self-venting					Material
		Valve size	Hose connection mm	O-ring	PVDF
I		3/8"	4 x 6	Viton / EPDM	
L		3/8"	4 x 6 / 4 x 8	Viton / EPDM	
M		3/8"	6 x 8	Viton / EPDM	
N	N		6 x 8	Viton / EPDM	
S	S		8 x 10 / 8 x 12	Viton / EPDM	
T	Т		12 x 18 / 13 x 16	Viton / EPDM	
	IA		4 x 6	Viton / EPDM	
	LA		4 x 6 / 4 x 8	Viton / EPDM	
	MA		6 x 8	Viton / EPDM	
	NA		6 x 8	Viton / EPDM	
	SA		8 x 10 / 8 x 12	Viton / EPDM	
	TA	3/4"	12 x 18 / 13 x 16	Viton / EPDM	

Example order

PVDF-S	3/4"	8/12	Viton	
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Your selection		

Viton® is a registered trademark of DuPont Dow Elastomers



Pump heads for solenoid diaphragm dosing pump Series K, KA, KMS, KMSA, T, TMS, CMS and CMSA made of stainless steel



General information

Spare parts kits consisting of:

- Pump head made of stainless steel
- Suction and delivery valve with hose connection, made of stainless steel
- O-ring to seal the pump head housing

Order code

Pump head SS				Material
Standard	Valve size	Hose connection [mm]	O-ring	Stainless steel
A	3/8"	4 x 6	Viton / EPDM	
В	3/8"	4 x 6	Viton / EPDM	
С	3/8"	4 x 6	Viton / EPDM	
D	1/2"	6 x 8	Viton / EPDM	
E	1/2"	6 x 8	Viton / EPDM	
F	1/2"	6 x 8	Viton / EPDM	
G	1/2"	6 x 8	Viton / EPDM	

Example order

SS-B 3/8"	4 x 6	Viton	
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Pump heads for Polymer solenoid diaphragm dosing pump Type BP – EP



General information

Spare parts kits consisting of:

- Pump head made of acrylic
- Suction and delivery valve with hose connection, and manual venting valve made of PVDF
- O-ring to seal the pump head housing

Order code

Pump head AC	O-rings	Material Acrylic
ВР	FPM	
Br	EPDM	
СР	FPM	
Cr	EPDM	
D.D.	FPM	
DP	EPDM	
ED.	FPM	
EP	EPDM	
ED.	FPM	
FP	EPDM	

Example order

AC-BP	FPM	
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Your selection	

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Suction and delivery valve kits for solenoid membrane dosing pumps with self-venting pump head



General information

Each valve kit consists of one intake valve, one pressure valve and one venting valve with:

- body made of PP or PVDF
- Sleeve nut, clamping ring and hose connection
- Ceramic valve ball
- Valve spring made of Hastelloy® C 276
- O-rings made of Viton®, or EPDM

Order code

Kit suction valve	e, delivery v	alve	and venting	valve		
,	Valve size	ŀ	lose size	Body	O-ring	Valve ball
	3/8"	Х	4/6 mm	+ PP	+ FPM	+CE
	3/8"	Х	4/6 mm	+ PP	+ EPDM	+CE
	3/8"	Х	4/6 mm	+ PVDF	+ FPM	+CE
	3/8"	Х	4/6 mm	+ PVDF	+ EPDM	+CE
	3/8"	Х	4/8 mm	+ PP	+ FPM	+CE
	3/8"	Х	4/8 mm	+ PP	+ EPDM	+CE
	3/8"	Х	4/8 mm	+ PVDF	+ FPM	+CE
	3/8"	Х	4/8 mm	+ PVDF	+ EPDM	+CE
	3/8"	Х	6/8 mm	+ PP	+ FPM	+CE
	3/8"	Х	6/8 mm	+ PP	+ EPDM	+CE
	3/8"	Χ	6/8 mm	+ PVDF	+ FPM	+CE
	3/8"	Х	6/8 mm	+ PVDF	+ EPDM	+CE
	1/2"	Х	6/8 mm	+ PP	+ FPM	+CE
	1/2"	Χ	6/8 mm	+ PP	+ EPDM	+CE
	1/2"	Χ	6/8 mm	+ PVDF	+ FPM	+CE
	1/2"	Х	6/8 mm	+ PVDF	+ EPDM	+CE
	1/2"	Х	8/10 mm	+ PVDF	+ FPM	+CE
	1/2"	Х	8/10 mm	+ PVDF	+ EPDM	+CE
	1/2"	Х	8/12 mm	+ PP	+ EPDM	+CE
	1/2"	Х	8/12 mm	+ PP	+ FPM	+CE

Kit SDE	2/0 v A/A + DVDE + EDAA + CE for pump boad DA (ovample order)	
KII 3DE	3/8 x 4/6 + PVDF + FPM + CE for pump head BA (example order)	

Note

When ordering dosing valves, please also specify the dosing-pump type or the code letters for the pump head!

Your selection

ſ	Kit SDE						

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Viton® is a registered trademark of DuPont Dow Elastomers



Suction and delivery valve kits for solenoid membrane dosing pumps



General information

Each valve kit consists of one suction valve and one delivery valve with:

- Body made of PP or PVDF, PTFE or stainless steel SS 316 (EN 1.4436)
- Sleeve nut, clamping ring and hose connection
- Valve ball made of ceramic or stainless steel AISI 316 (EN 1.4436)
- Valve spring made of Hastelloy® C 276
- O-rings made of Viton®, or EPDM

Order code

livery valve Valve size		ose size	Body	O-ring	Valve ball
3/8"	X	4/6 mm	+ PP	+ FPM	+CE
3/8"	X	4/6 mm	+ PP	+ EPDM	
3/8"	Х	4/6 mm	+ PTFE	+ FPM	+CE
3/8"	Х	4/6 mm	+ PTFE	+ EPDM	
3/8"	X	4/6 mm	+ PVDF	+ FPM	+CE
3/8"	Х	4/6 mm	+ PVDF	+ EPDM	
3/8"	Х	4/6 mm	+ SS	+ FPM	+ SS
3/8"	х	4/6 mm	+ SS	+ EPDM	+ SS
3/8"	Х	4/8 mm	+ PP	+ FPM	+CE
3/8"	Х	4/8 mm	+ PP	+ EPDM	
3/8"	Х	4/8 mm	+ PTFE	+ FPM	+CE
3/8"	X	4/8 mm	+ PTFE	+ EPDM	
3/8"	X	4/8 mm	+ PVDF	+ FPM	+CE
3/8"	Х	4/8 mm	+ PVDF	+ EPDM	
3/8"	Х	4/8 mm	+ SS	+ FPM	+ SS
3/8"	Х	4/8 mm	+ SS	+ EPDM	+ SS
3/8"	Х	6/8 mm	+ PP	+ FPM	+CE
3/8"	Х	6/8 mm	+ PP	+ EPDM	+CE
3/8"	Х	6/8 mm	+ PTFE	+ FPM	+CE
3/8"	Х	6/8 mm	+ PTFE	+ EPDM	+CE
3/8"	Х	6/8 mm	+ PVDF	+ FPM	+CE
3/8"	Х	6/8 mm	+ PVDF	+ EPDM	+CE
3/8"	Х	6/8 mm	+ SS	+ FPM	+CE
3/8"	Х	6/8 mm	+ \$\$	+ EPDM	+CE



1/2"							
1/2" x 4/6 mm + PTFE + FPM + CE 1/2" x 4/6 mm + PTFE + EPDM + CE 1/2" x 4/6 mm + PVDF + FPM + CE 1/2" x 4/6 mm + SS + FPM + SS 1/2" x 4/6 mm + SS + FPM + SS 1/2" x 6/8 mm + PP + FPM + CE 1/2" x 6/8 mm + PTFE + FPM + CE 1/2" x 6/8 mm + PTFE + FPM + CE 1/2" x 6/8 mm + PTFE + FPM + CE 1/2" x 6/8 mm + PVDF + FPM + CE 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 8/10 mm + PVDF + FPM + CE 1/2" x 8/10 mm + PVDF + FPM + CE 1/2" x 8/10 mm <td>1/2"</td> <td>Х</td> <td>4/6 mm</td> <td>+ PP</td> <td>+ FPM</td> <td>+CE</td> <td></td>	1/2"	Х	4/6 mm	+ PP	+ FPM	+CE	
1/2" x 4/6 mm + PTFE + EPDM + CE 1/2" x 4/6 mm + PVDF + FPM + CE 1/2" x 4/6 mm + PVDF + EPDM + CE 1/2" x 4/6 mm + SS + FPM + SS 1/2" x 4/6 mm + SS + EPDM + SS 1/2" x 4/6 mm + SS + EPDM + SS 1/2" x 6/8 mm + PP + FPM + CE 1/2" x 6/8 mm + PP + EPDM + CE 1/2" x 6/8 mm + PTFE + EPDM + CE 1/2" x 6/8 mm + PTFE + EPDM + CE 1/2" x 6/8 mm + PVDF + FPM + CE 1/2" x 6/8 mm + PVDF + EPDM + CE 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 6/8 mm + SS + EPDM + SS 1/2" x 6/8 mm + SS + EPDM + CE 1/2" x 8/10 mm + PVDF + FPM + CE 1/2" x 8/10 mm + PVDF + EPDM + CE 1/2" x 8/10 mm + PVDF + EPDM + CE 1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE	1/2"	Χ	4/6 mm	+ PP	+ EPDM	+CE	
1/2" x 4/6 mm + PVDF + FPM + CE 1/2" x 4/6 mm + PVDF + EPDM + CE 1/2" x 4/6 mm + SS + FPM + SS 1/2" x 4/6 mm + SS + EPDM + SS 1/2" x 6/8 mm + PP + FPM + CE 1/2" x 6/8 mm + PP + EPDM + CE 1/2" x 6/8 mm + PTFE + FPM + CE 1/2" x 6/8 mm + PTFE + EPDM + CE 1/2" x 6/8 mm + PVDF + FPM + CE 1/2" x 6/8 mm + PVDF + FPM + CE 1/2" x 6/8 mm + PVDF + EPDM + CE 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 6/8 mm + SS + EPDM + CE 1/2" x 6/8 mm + SS + EPDM + CE 1/2" x 8/10 mm + PVDF + FPM + CE 1/2" x 8/10 mm + PVDF + EPDM + CE 1/2" x 8/12 mm + PVDF + EPDM + CE 1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE	1/2"	Χ	4/6 mm	+ PTFE	+ FPM	+CE	
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1/2" x 4/6 mm + SS + FPM + SS 1/2" x 4/6 mm + SS + EPDM + SS 1/2" x 6/8 mm + PP + FPM + CE 1/2" x 6/8 mm + PTFE + FPM + CE 1/2" x 6/8 mm + PTFE + EPDM + CE 1/2" x 6/8 mm + PVDF + FPM + CE 1/2" x 6/8 mm + PVDF + EPDM + CE 1/2" x 6/8 mm + PVDF + EPDM + CE 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 6/8 mm + SS + EPDM + CE 1/2" x 8/10 mm + PVDF + FPM + CE 1/2" x 8/10 mm + PVDF + EPDM + CE 1/2" x 8/10 mm + PVDF + EPDM + CE 1/2" x 8/12 mm + PP + FPM + CE 1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PFFE + FPM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE	1/2"	Х	4/6 mm	+ PVDF	+ FPM	+CE	
1/2" x 4/6 mm + SS + EPDM + SS 1/2" x 6/8 mm + PP + FPM + CE 1/2" x 6/8 mm + PTFE + FPM + CE 1/2" x 6/8 mm + PTFE + EPDM + CE 1/2" x 6/8 mm + PVDF + FPM + CE 1/2" x 6/8 mm + PVDF + EPDM + CE 1/2" x 6/8 mm + PVDF + EPDM + CE 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 6/8 mm + SS + EPDM + CE 1/2" x 8/10 mm + PVDF + FPM + CE 1/2" x 8/10 mm + PVDF + EPDM + CE 1/2" x 8/12 mm + PP + FPM + CE 1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PFFE + FPM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE	1/2"	Х	4/6 mm	+ PVDF	+ EPDM	+CE	
1/2" x 6/8 mm + PP + FPM + CE 1/2" x 6/8 mm + PTFE + FPM + CE 1/2" x 6/8 mm + PTFE + FPM + CE 1/2" x 6/8 mm + PTFE + EPDM + CE 1/2" x 6/8 mm + PVDF + FPM + CE 1/2" x 6/8 mm + PVDF + FPM + CE 1/2" x 6/8 mm + PVDF + EPDM + CE 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 6/8 mm + SS + EPDM + SS 1/2" x 8/10 mm + PVDF + FPM + CE 1/2" x 8/10 mm + PVDF + EPDM + CE 1/2" x 8/12 mm + PP + FPM + CE 1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE	1/2"	Х	4/6 mm	+ \$\$	+ FPM	+ SS	
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1/2"							
1/2"	1/2"	Х	6/8 mm	+ PP	+ FPM	+CE	
1/2" x 6/8 mm + PTFE + EPDM + CE 1/2" x 6/8 mm + PVDF + FPM + CE 1/2" x 6/8 mm + PVDF + EPDM + CE 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 6/8 mm + SS + EPDM + SS 1/2" x 6/8 mm + SS + EPDM + CE 1/2" x 8/10 mm + PVDF + FPM + CE 1/2" x 8/10 mm + PVDF + EPDM + CE 1/2" x 8/12 mm + PP + FPM + CE 1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE	1/2"	Х	6/8 mm	+ PP	+ EPDM	+CE	
1/2" x 6/8 mm + PVDF + FPM + CE 1/2" x 6/8 mm + PVDF + EPDM + CE 1/2" x 6/8 mm + SS + FPM + SS 1/2" x 6/8 mm + SS + EPDM + SS 1/2" x 8/10 mm + PVDF + FPM + CE 1/2" x 8/10 mm + PVDF + EPDM + CE 1/2" x 8/12 mm + PP + FPM + CE 1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE	1/2"	Х	6/8 mm	+ PTFE	+ FPM	+CE	
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1/2" x 8/10 mm + PVDF + FPM +CE 1/2" x 8/10 mm + PVDF + EPDM +CE 1/2" x 8/12 mm + PP + FPM +CE 1/2" x 8/12 mm + PP + EPDM +CE 1/2" x 8/12 mm + PTFE + FPM +CE 1/2" x 8/12 mm + PTFE + EPDM +CE 1/2" x 8/12 mm + PTFE + EPDM +CE	1/2"	Х	6/8 mm	+ \$\$	+ FPM	+ SS	
1/2" x 8/10 mm + PVDF + EPDM +CE 1/2" x 8/12 mm + PP + FPM +CE 1/2" x 8/12 mm + PP + EPDM +CE 1/2" x 8/12 mm + PTFE + FPM +CE 1/2" x 8/12 mm + PTFE + EPDM +CE 1/2" x 8/12 mm + PTFE + EPDM +CE	1/2"	Х	6/8 mm	+ \$\$	+ EPDM	+ SS	
1/2" x 8/10 mm + PVDF + EPDM +CE 1/2" x 8/12 mm + PP + FPM +CE 1/2" x 8/12 mm + PP + EPDM +CE 1/2" x 8/12 mm + PTFE + FPM +CE 1/2" x 8/12 mm + PTFE + EPDM +CE 1/2" x 8/12 mm + PTFE + EPDM +CE							
1/2" x 8/12 mm + PP + FPM + CE 1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE	1/2"	Х	8/10 mm	+ PVDF	+ FPM	+CE	
1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE 1/2" x 12/16 mm + PP + FPM + CE	1/2"	Х	8/10 mm	+ PVDF	+ EPDM	+CE	
1/2" x 8/12 mm + PP + EPDM + CE 1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE 1/2" x 12/16 mm + PP + FPM + CE							
1/2" x 8/12 mm + PTFE + FPM + CE 1/2" x 8/12 mm + PTFE + EPDM + CE 1/2" x 12/16 mm + PP + FPM + CE	1/2"	Х	8/12 mm	+ PP	+ FPM	+CE	
1/2" x 8/12 mm + PTFE + EPDM +CE 1/2" x 12/16 mm + PP + FPM +CE	1/2"	Х	8/12 mm	+ PP	+ EPDM	+CE	
1/2" x 12/16 mm + PP + FPM +CE	1/2"	Х	8/12 mm	+ PTFE	+ FPM	+CE	
	1/2"	Х	8/12 mm	+ PTFE	+ EPDM	+CE	
1/2" x 12/16 mm + PP + EPDM +CE	1/2"	Х	12/16 mm	+ PP	+ FPM	+CE	
	1/2"	Х	12/16 mm	+ PP	+ EPDM	+CE	
1/2" x 13/16 mm + PVDF + FPM +CE	1/2"	Х	13/16 mm	+ PVDF	+ FPM	+CE	
1/2" x 13/16 mm + PVDF + EPDM +CE	1/2"	X	13/16 mm	+ PVDF	+ EPDM	+CE	

Kit SD	3/8" x 4/6 + PP + EPDM + CE for Dosing head B (example order)	
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Note

When ordering dosing valves, please also specify the dosing pump type or the code letters for the dosing head!

Your selection

Kit SD

Abbreviations:

Body (valve body)/Colour

Polypropylene (PP)
Black

Polyvinyliden fluoride (PVDF) while, milky Polytetrafluoroethylene (PTFE) Blue

O-ring

 $\begin{tabular}{ll} \begin{tabular}{ll} \beg$

Valve ball

CE = ceramic

SS = stainless steel (EN 1.4436)

Hastelloy® is a registered trademark of Haynes International Inc.



Diaphragms for solenoid diaphragm dosing pumps

Series F, FA, FMS, FMSA, H, HA, HMS, HMS, K, KA, KMS, KMSA, G, GMS, T, TMS, CMS, CMSA, AMS, AMSA



General information

Diaphragms made of PTFE

Order code

0.40.0040		
Diaphragms	Pump head type	Material / PTFE
PCS	PCS / PCA / K / KA	
Α	A / AA / I / J / JA	
В	B/BA/L/LA	
С	C/CA/M/MA	
D	D/DA/N/NA	
E	E/EA/S/SA	
F	F /FA	
G	G /GA	
N	N / NA (AMS)	
T	T / TA	

Example order

=		
	_	
N	E	
• •		



Diaphragm for DOSAMac motor driven pumps Series DOSAMac: FM-50, D-50, D-100, D-101 and D-121



Versions

Series FM-50 D-50 D-100 D-101 D-121	Pump head	Diaphragm	Valve balls	Valve seating
11	SS 316	PTFE/NBR	SS 316	SS 316
12	PP	PTFE/NBR	PYREX	PVC
13	PVC	PTFE/NBR	PYREX	PVC
16	PVC	PTFE/NBR	SS 316	PVC
23	PVDF	PTFE/NBR	PYREX	PVDF

Order code

Diaphragms for Se		
	Diaphragm diameter	
;	30	
	50	
	70	
	90	
	105	
	120	

Diaphragm 120 (example order)

Diaphragm		
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Pump head for DOSAMac motor driven pumps Series DOSAMac: FM-50, D-50, D-100, D-101 and D-121



Versions

Series FM-50 D-50 D-100 D-101 D-121	Pump head	Diaphragm	Valve balls	Valve seating
11	SS 316	PTFE/NBR	SS 316	SS 316
12	PP	PTFE/NBR	PYREX	PVC
13	PVC	PTFE/NBR	PYREX	PVC
16	PVC	PTFE/NBR	SS 316	PVC
23	PVDF	PTFE/NBR	PYREX	PVDF

Order code

Pump head 11 (\$\$316) fo	r Series FM-50, D-50, D-100, D-101 and D-121 without valves	
	Diaphragm diameter	
	30	
	50	
	70	
	90	
	105	
	120	

Pump head 11	70 (example order)	
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Pump head 11	



Order code		
Pump head 12 (PP) for Se	ries FM-50, D-50, D-100, D-101 and D-121 without valves	
	Diaphragm diameter	
	30	
	50	
	70	
	90	
	105	
	120	
	120	
Pump head 12	70 (example order)	
	(Complete State)	
Your selection		
Pump head 12		
Order code		
Pump head 13 (PVC) for 3	Series FM-50, D-50, D-100, D-101 and D-121 without valves	
	Diaphragm diameter	
	30	
	50	
	70	
	90	
	105	
	120	
D 1 140		
Pump head 13	70 (example order)	
Your selection		
Pump head 13		
Order code		
	Series FM-50, D-50, D-100, D-101 and D-121 without valves	
Tomp nedd 25 (1 VDT) for	Diaphragm diameter	
	30	
	50	
	70	
	90	
	105	
	120	
Pump head 23	70 (example order)	
Your selection		

Pump head 23



Diaphragm shield for DOSAMac motor driven pumps Series DOSAMac: FM-50, D-50, D-100, D-101 and D-121



Order code

Diaphragm shield for Series FM-50, D-50		
	Diaphragm diameter	
	30	
	50	
	70	
	90	
	105	
	120	

Diaphragm shield	70 (example order)	

Diaphragm shield		
------------------	--	--



Head lantern for DOSAMac motor driven pumps

Series DOSAMac: FM-50, D-50, D-100, D-101 and D-121



Versions

Series FM-50 D-50 D-100 D-101 D-121	Pump head	Diaphragm	Valve balls	Valve seating
11	SS 316	PTFE/NBR	SS 316	SS 316
12	PP	PTFE/NBR	PYREX	PVC
13	PVC	PTFE/NBR	PYREX	PVC
16	PVC	PTFE/NBR	SS 316	PVC
23	PVDF	PTFE/NBR	PYREX	PVDF

Order code

0.00.000				
Head lantern for Series FM-50, D-50, D-100, D-101 and D-121				
	Diaphragm diameter			
	30			
	50			
	70			
	90			
	105			
	120			

Head lantern	70 (example order)	
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neda laniem



Swimming pool Technology



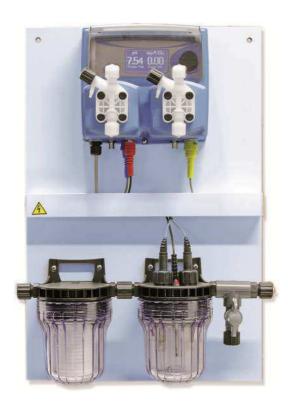
4. Swimming-pool technology DOSAPool

4.1	pH-Redox
4.1	DOSAPool WPHRHD A
4.1	DOSAPool WPHRHD PER
4.1	DOSAPool VMSA-PH + VMSA-RH
4.2	pH-Chlor
4.2	DOSAPool WDPHCL CC1N
4.2	DOSAPool WDPHCL DFDS
4.3	pH-Redox-Chlor
4.3	DOSAPool DCW500 + CC1N
4.3	DOSAPool DCW500 + CC1N + CP2.1N
4.3	DOSAPool DCW500 + CC1N + CP2.1N + flocculation + algicid



DOSA*Pool* WPHRHD A + NPED + NFILS/100 Measurement, control and dosing unit for swimming pools

Measurement, control and dosing unit for fully automated regulation of **pH and redox** value with automatic dosing of pH-minus and liquid chlorine products. The solenoid diaphragm dosing pumps facilitate precise, measurement-value proportional dosing of pool chemicals, even for pressures up to 1.800 KPa (18 bar).



General performance characteristics

These compact units are preset, pre-assembled on a white mounting plate and delivered ready for connection by customer.

Unit with integrated measurement and control electronics for pH and redox (ORP) value and two solenoid diaphragm pumps for pH-minus and sodium hypochlorite (chlorine bleach) etc. With stand-by input (or flow monitor) and pH-priority function.

Flow rate: 3.0 I/h, 700 KPA (7 bar), other flow rates possible.

Flow cell made of PP/Noryl to hold the pH and redox electrodes with integrated flow-rate switch Fine filter made of PP/Noryl. Protect the electrodes against coarse impurities.

Choice of three color schemes for a panel background:

- White, non-printed
- Pool background
- on customer's request

Dimensions: 400 x 600 x 160 mm (W x H x D)



Order Code

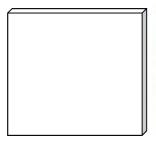
DOSAPool Type WPHRHD A					
		Soleno	id diapl		
	3	3,0 l/h	– 7 bar (
			Panel-	Aufdruck	
		W	White,	without background	
		Р	Pool bo		
		K	Print a	ccording to customer's specification	
				4 drill-tapping clamp for pipes	
		0 none			
		40 DN 40			
			50		
			63	DN 63	

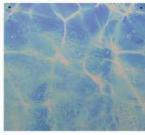
WPHRHD A-	3	W	63	(Example order)	
-----------	---	---	----	-----------------	--

Your selection:

1001 3010011011:								
	WPHRHD A-							

Panel background







white

Pool

Customer's specification

Scope of supply includes,

- 2 AK 0.5 connection lead SN6/BNC, cable length 0.5 m
- 1 pH electrode type: PHPK-2, plastic shaft, shaft length = 120 mm, PG 13.5
- 1 redox electrode type: MVPK-2, plastic shaft, shaft length = 120 mm, PG 13.5
- 1 pH buffer solution 50 ml, pH 4
- 1 pH buffer solution 50 ml, pH 7
- 1 redox buffer solution 50 ml, 468 mV
- 2 injection valve type: IVN, ½"a, hose connection: 4x6 mm, o-rings in Viton®, housing in PVDF
- 2 Foot valve with filter and empty level switch (N.O.), hose connection: 4x6 mm (axial), o-rings in Viton®, housing in PVDF
- 4 Drill-tapping clamps for pipes
- 2 2 m suction hose in PVC
- 2 2 m pressure hose in PE
- 2 2 m connection hose in PE



DOSA*Pool* WPHRHD PER + NPED + NFILS/100 Measurement, control and dosing unit for private swimming pools

Measurement control and dosing unit for fully automated regulation of **pH and redox** value with automatic dosing of pH-minus and liquid chlorine products. The peristaltic pumps facilitate precise, measurement-value proportional dosing of pool chemicals, even for pressures up to 50 KPa (0.5 bar).



General performance characteristics

These compact units are preset, pre-assembled on a white mounting plate and delivered ready for connection by customer.

Unit with integrated measurement and control electronics for pH and redox (ORP) value and two peristaltic pumps to dispense pH-minus and sodium hypochlorite (chlorine bleach) etc. With stand-by input (or flow monitor) and pH-priority function.

Flow rate: 2.0 I/h, 50 KPa (0.5 bar)

Flow cell made of PP/Noryl to hold the pH and redox electrodes with integrated flow-rate switch Fine filter in PP/Noryl to protect the electrodes against coarse impurities.

Choice of three colour schemes for a panel background:

- White, non-printed
- Pool background
- On enquiry by the customer

Dimensions: 400 x 600 x 160 mm (W x H x D)



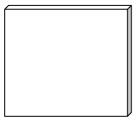
Order Code

DOSAPool Type WPHRHD PER							
		Peristo	ıltic pu				
	2	2.0 l/h	0.5 ba				
_			Panel	background			
		W	White				
		Р	Pool				
		K	Custo				
				4 Stück drill-tapping clamp for pipes			
			0	ohne			
			40	40 mm			
			50				
			63	63 mm			

	WPHRHD PER	40	W	63	(example order)	
--	------------	----	---	----	-----------------	--

1001 30100110	<u> </u>		
WPHRHD PER			

Panel background







white

Pool

customer's specification

Scope of supply includes:

- 2 AK 0.5 connection lead SN6/BNC, cable length 0.5 m
- 1 pH electrode type: PHPK-2, plastic shaft, shaft length = 120 mm, PG 13.5
- 1 redox electrode type: MVPK-2, plastic shaft, shaft length = 120 mm, PG 13.5
- 1 pH buffer solution 50 ml, pH 4
- 1 pH buffer solution 50 ml, pH 7
- 1 redox buffer solution 50 ml, 468 mV
- 2 injection valve type: IVN, 1/2"a, hose connection: 4x6 mm, o-rings in Viton®, housing in PVDF
- 2 Foot valve with filter and empty level switch (N.O.), hose connection: 4x6 mm (axial), o-rings in Viton®, housing in PVDF
- 4 Drill-tapping clamps for pipes
- 2 2 m suction hose in PVC
- 2 2 m pressure hose in PE
- 2 2 m connection hose in PE



DOSAPool VMSA-PH + VMSA-RH + NPED + NFILS/100 Measurement, control and dosing unit for swimming pools

Measurement control and dosing unit for fully automated regulation of **pH and redox** value with automatic dosing of pH-minus and liquid chlorine products. The solenoid diaphragm dosing pumps facilitate precise, measurement-value proportional dosing of pool chemicals, even for counter pressures of up to 1.800 KPa (18 bar).



General performance characteristics

These compact units are preset, pre-assembled on a white mounting plate and delivered ready for connection.

Unit with two solenoid diaphragm dosing pumps with integrated measurement and control electronics for pH and redox (ORP) value to dispense pH minus and sodium hypochlorite (chlorine bleach) etc. With stand-by input (or flow monitor).

Flow rate (other flow rates up to 1.800 KPa possible): 4.0 l/h, 700 KPa (7bar)

Flow cell made of PP/Noryl to hold the pH and redox electrodes with integrated flow-rate switch Fine filter PP/Noryl available to protect the electrodes against coarse impurities

Choice of three colour schemes for a panel background:

- White, non-printed
- Pool background
- on customer's request

Dimensions: 400 x 600 x 160 mm (W x H x D)



Order code

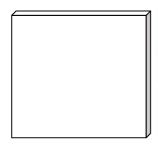
DOSAPool Type VMSA-PH/RH							
		Soleno	id diapl				
	4	4.0 l/h	– 700 KP				
			Panel p	orint			
		W	White,				
		Р	Pool bo				
		K	Print a				
				4 drill-tapping clamps for pipes			
			0	without			
				40 mm			
			50	50 mm			
			63	63 mm			

· · ·

Your selection

_	1001001011	761 4616 611611								
Ī	VMSA-PH/RH									
L	- ,									

Panel background







white

Pool

customer specification

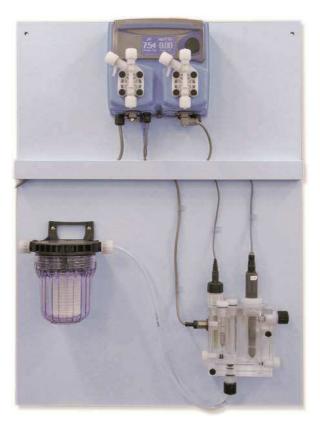
Scope of supply includes:

- 2 AK 0.5 connection lead SN6/BNC, cable length 0.5 m
- 1 pH electrode type: PHPK-2, plastic shaft, shaft length = 120 mm, PG 13.5
- 1 redox electrode type: MVPK-2, plastic shaft, shaft length = 120 mm, PG 13.5
- 1 pH buffer solution 50 ml, pH 4
- 1 pH buffer solution 50 ml, pH 7
- 1 redox buffer solution 50 ml, 468 mV
- 2 injection valve type: IVN, hose connection: 4x6 mm, o-rings in Viton®, housing in PVDF
- 2 Foot valve with filter and empty level switch (N.O.), hose connection: 4x6 mm (axial), o-rings in Viton®, housing in PVDF
- 4 Drill-tapping clamps for pipes
- 2 2 m suction hose in PVC
- 2 2 m pressure hose in PE
- 2 2 m connection hose in PE



DOSA*Pool* WDPHCL + CC1N+ DF21C + NFIL/100 Measurement, control and dosing unit for private swimming pools

Measurement, control and dosing unit for fully automated regulation of **pH and chlorine** value with automatic dosing of pH-minus and liquid chlorine products. The solenoid diaphragm dosing pumps facilitate precise, measurement-value proportional dosing of pool chemicals, even for pressures up to 1.800 KPa (18 bar).



General performance characteristics

These compact units are preset, pre-assembled on a white mounting plate and delivered ready for connection.

Unit with integrated measurement and control electronics for pH and redox (ORP) value and two solenoid diaphragm pumps to dispense pH-minus and sodium hypochlorite (chlorine bleach) etc. With stand-by input (or flow monitor) and pH-priority function.

Flow rate: 3.0 l/h, 700 KPA (7 bar), other flow rates possible.

Flow cell in acryl with chamber for pH-electrode and chlorine probe (amperometric sensor, type: CC1N) and integrated flow rate monitoring system.

Fine filter in PP/Noryl to protect the electrodes against coarse impurities

Choice of three color schemes for a panel background:

- White, non-printed
- Pool background
- on customer's request

Dimensions: 500 x 700 x 160 mm (W x H x D)



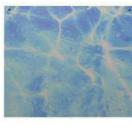
DOSAPool Type WDPHCL CC1N							
		Solend	oid diap				
	3	3.0 l/h	, 700 KF				
			Panel	background			
		W	White	, no background			
		Р	Pool				
		K	Custo	mer's specifications			
	4 Stück			4 Stück drill-tapping clamp for pipes			
				none			
			40	DN 40			
			50	DN 50			
			63	DN 63			

WPHRHD PER	40	W	63	(example order)		
Your selection						
WEHRHD DEB						

Panel background



white



Pool



customer's specification

Scope of supply includes:

- 1 AK-CL1 connection cable with plugs AG / open
- 1 CC1N chlorine sensor, 0.05 -> 20.00 ppm, -100 mV/ppm
- 1 AK 0.5 connection cable SN6/BNC, cable length 0.5 m
- 1 pH electrode type: PHPK-2, plastic shaft, shaft length = 120 mm, PG 13.5
- 1 pH buffer solution 50 ml, pH 4
- 1 pH buffer solution 50 ml, pH 7
- 2 injection valve type: IVN, ½"a, hose connection: 4x6 mm, o-rings in Viton®, housing in PVDF
- 2 Foot valve with filter and empty level switch (N.O.), hose connection: 4x6 mm (axial), o-rings in Viton®, housing in PVDF
- 4 Drill-tapping clamps for pipes
- 2 2 m suction hose in PVC
- 2 2 m pressure hose in PE
- 2 m connection hose in PE



DOSA*Pool* WDPHCL + DFDS7 + NFIL/100 Measurement, control and dosing unit for private swimming pools

Measurement, control and dosing unit for fully automated regulation of **pH and chlorine** value with automatic dosing of pH-minus and liquid chlorine products. The solenoid diaphragm dosing pumps facilitate precise, measurement-value proportional dosing of pool chemicals, even for pressures up to 1800 KPa (18 bar).



General performance characteristics

These compact units are preset, pre-assembled on a white mounting plate and delivered ready for connection.

Unit with integrated measurement and control electronics for pH and chlorine value and two solenoid diaphragm pumps for pH-minus and sodium hypochlorite (chlorine bleach) etc. With stand-by input (or flow monitor) and pH-priority function.

Flow rate: 3.0 l/h, 700 KPA (7 bar), other flow rates possible.

Flow cell in acryl with integrated open chlorine sensor (platinum/cupper) and flow monitoring. Sensor chamber for pH-electrode.

Fine filter in PP/Noryl to protect the electrodes against coarse impurities

Choice of three color schemes for a panel background:

- White, non-printed
- Pool background
- on cusomter's request

Dimensions: 500 x 700 x 160 mm (W x H x D)



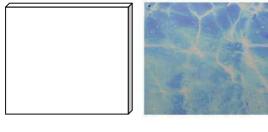
Order Code

WPHRHD PER

DOSAPool Type WDPHCL DFDS7							
		Solend	oid diap				
	3	3.0 l/h	, 700 K				
			Panel				
		W	White	, no background			
		Р	Pool				
		K	Custo	mer's specifications			
				4 Stück drill-tapping clamp for pipes			
			0	none			
			40	DN 40			
			50	DN 50			
			63	DN 63			

WPHRHD PER	40	W	63	(example order)	
Your selection	1				

Panel background





white Pool customer's specification

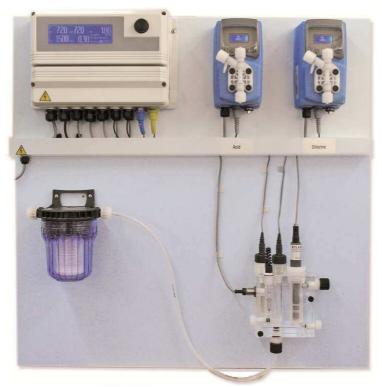
Scope of supply includes:

- 1 AK 0.5 connection cable (SN6/BNC), cable length 0.5 m
- 1 pH electrode PHPK-2, plastic shaft, shaft length = 120 mm, PG 13.5
- 1 integrated open chlorine sensor (platinum/cupper)
- 1 pH buffer solution 50 ml, pH 4
- 1 pH buffer solution 50 ml, pH 7
- 2 injection valve type: IVN, 1/2"a, hose connection: 4x6 mm, o-rings in Viton®, housing in PVDF
- 2 Foot valve with filter and empty level switch (N.O.), hose connection: 4x6 mm (axial), o-rings in Viton®, housing in PVDF
- 4 Drill-tapping clamps for pipes
- 2 2 m suction hose in PVC
- 2 2 m pressure hose in PE
- 2 2 m connection hose in PE



DOSAPool DCW500 + CC1N + DF21 + NFIL/100 Measurement, control and dosing unit for swimming pools

Measurement control and dosing unit for fully automated measurement of the **pH**, **redox and chlorine** value, and for dosing of pH-minus and liquid chlorine products. The solenoid diaphragm dosing pumps facilitate precise, measurement-value proportional dosing of pool chemicals, even for counter pressures up to 18 bar.



General performance characteristics

The compact unit is preset, pre-assembled on a white mounting plate and delivered ready for connection.

Unit with integrated measurement and control electronics for pH, redox and chlorine values, and two solenoid diaphragm pumps for pH-minus and sodium hypochlorite (chlorine bleach) etc. With stand-by input (or flow monitor) and pH-priority controller Dosing rate (other dosing rates possible):

-7.5 l/h - 5 bar

Acrylic flow cell with integrated flow monitoring, to hold the pH electrode, redox electrode and chlorine probe.

Fine filter PP/Noryl available to protect the electrodes against coarse impurities

Choice of three colour schemes for a panel background:

- White, non-printed
- Pool
- On enquiry by the customer

Dimensions: 800 x 800 x 160 mm (W x H x D)



Order code

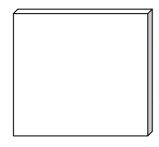
DOSAPool Type DCW 500 CC1N					
		Soleno	id diapl	nragm dosing pumps, dosing rate	
	75	7.5 l/h	– 5 bar (other dosing rates available)	
			Panel print		
		W	White	without background	
		Р	Pool		
		K	Print a	ccording to customer specification	
				4 drill-tapping clamp	
			0	without	
			40	40 mm	
			50	50 mm	
			63	63 mm	

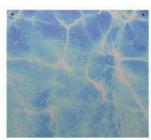
DCW 500 CC1N 75 W 63 (example order)

Your selection

DCW 500 CC1N			
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Panel background







White without background

Pool

customer specification

Scope of supply includes:

- 1 AK-CL 1 connection lead with plug AG / open
- 1 CC1N chlorine probe, 0.05 -> 20.00 ppm, -100 mV / ppm
- 2 AK 0.5 connection leads SN6/BNC, 0.5 m dia. 5 mm
- 1 PHPK-2 combination pH electrode, plastic barrel, L = 120 mm, PG 13.5
- 1 MVPK-2 redox combination pH electrode, plastic barrel, L = 120 mm, PG 13.5
- 1 pH buffer solution 4 50 ml
- 1 pH buffer solution 7 50 ml
- 1 468mV redox buffer solution 50ml
- 2 IVN injection valves 1/2 "4x6 mm, Viton, PVDF
- 2 foot valves with empty indicator, N.O. Viton axial 1/2 "with 4x6 with filter and weight, PVDF
- 4 Drill-tapping clamps
- 2 2 m suction hoses
- 2 2 m pressure hoses
- 2 2 m connection hoses



DOSAPool DCW500 CC + CP + DF32 + NFIL/100 Measurement, control and dosing unit for swimming pools

Measurement control and dosing units for fully automated measurement of the **pH**, **redox and chlorine** value, and for dosing of pH-minus and liquid chlorine products. The solenoid diaphragm dosing pumps facilitate precise, measurement-value proportional dosing of pool chemicals, even for counter pressures up to 18 bar.



General performance characteristics

The compact unit is preset, pre-assembled on a white mounting plate and delivered ready for connection.

Unit with integrated measurement and control electronics for pH, redox and chlorine values, and two solenoid diaphragm pumps for pH-minus and sodium hypochlorite (chlorine bleach) etc. With stand-by input (or flow monitor) and pH-priority controller Dosing rate (other dosing rates possible):

-7.5 l/h - 5 bar

Acrylic flow cell with integrated flow monitoring, to hold the pH electrode, redox electrode and chlorine probes (free and total chlorine probe)

Fine filter PP / Noryl available to protect the electrodes against coarse impurities

Choice of three colour schemes for a panel background:

- White, non-printed
- Pool
- On enquiry by the customer

Dimensions: 800 x 800 x 160 mm (W x H x D)



Order code

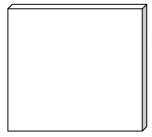
DOSAPool Type DCW 500 CC CP					
		Soleno	id diapl	nragm dosing pumps, dosing rate	
	75	7.5 l/h	– 5 bar ((other dosing rates available)	
			Panel	orint	
		W	White	without background	
		Р	Pool		
		K	Print a	ccording to customer specification	
				4 drill-tapping clamp	
			0	without	
			40	40 mm	
			50	50 mm	
			63	63 mm	

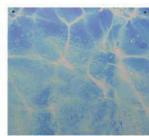
DCW 500 CC CP	75	W	63	(example order)	

Your selection

DCW 500 CC CP				
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Panel background







White, without background

Pool

Customer

Scope of supply includes:

- 2 AK-CL 1 connection leads with plug AG / open
- 1 CC1N chlorine probe, 0.05 -> 20.00 ppm, -100 mV / ppm (free chlorine)
- 1 CP2.1N chlorine probe, 0.00 -> 20.00 ppm, -100 mV / ppm (total chlorine)
- 2 AK 0.5 connection leads SN6/BNC, 0.5 m dia. 5 mm
- 1 PHPK-2 combination pH electrode, plastic barrel, L = 120 mm, PG 13.5
- 1 MVPK-2 redox combination pH electrode, plastic barrel, L = 120 mm, PG 13.5
- 1 pH buffer solution 4 50 ml
- 1 pH buffer solution 7 50 ml
- 1 468mV redox buffer solution 50ml
- 2 IVN injection valves 1/2 "4x6 mm, Viton, PVDF
- 2 Foot valves with empty indicator, N.O. Viton axial 1/2 "with 4x6 with filter and weight, PVDF
- 4 Drill-tapping clamps
- 2 2 m suction hoses
- 2 2 m pressure hoses
- 2 2 m connection hoses



DOSA*Pool* DCW500 FA CC + CP + DF32 + NFIL/100 Dosing and control system for swimming pools

Measurement control system for automated measurement of pH, redox(ORP), free chlorine, total chlorine and temperature value with automatic dosing of pH-minus, liquid chlorine, flocculants and antialgae liquids. The solenoid diaphragm dosing pumps facilitate precise, measurement-value proportional dosing of pool chemicals, even for counter pressures up to 1.700 KPa (17 bar).



General performance characteristics

These compact units are preset, pre-assembled on a white mounting plate and delivered ready for connection.

- 1 x Dosing pump for acid 3 l/h, 1.000 KPa (10 bar)
- 1 x Dosing pump for chlorine 2 l/h, 1.700 KPa (17 bar)
- 1 x Dosing pump for flocculants with double measurement scale 3.000 gr/24h, 5.000 KPa (5bar)
- 1 x Dosing pump for anti-algae liquids 7 I/h, 600 KPa (6 bar)

With stand-by input (or flow monitor) and pH-priority controller

Flow cell in acryl with integrated flow monitoring. Sensor chamber for pH-, redox-electrode, temperature sensor and two chlorine probes (free and total chlorine probe).

Fine filter PP/Noryl available to protect the electrodes against coarse impurities

Choice of three colour schemes for a panel background:

- White, non-printed
- Pool backround
- on customer's request

Dimensions: 1000 x 800 x 160 mm (W x H x D)



Order code

Oraci coac					
DOSAPool Type DCW 500 FA CC CP					
		Sole	noid did	aphragm dosing pumps	
	4	See	"gener	al performance characteristics"	
			Panel	orint	
		W	White	without background	
		Р	Pool be	ackround	
		K	Print a	ccording to customer specification	
				4 drill-tapping clamp for pipes	
			0	without	
			40	40 mm	
			50	50 mm	
			63	63 mm	

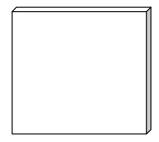
DCW 500 FA CC CP	4	W	63	(example order)	

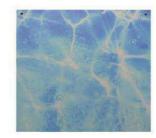
Your selection

DCW 500 A CC CP				
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Viton® is a registered trademark of DuPont Dow Elastomers

Panel background







White Pool Customer specification

Scope of supply includes

Quantity	Article
2	Connection cable AK-CL 1 with plug (AG / open wire)
1	Chlorine probe CC1N, 0.05 -> 20.00 ppm, -100 mV / ppm (free chlorine)
1	Chlorine probe CP2.1N, 0.00 -> 20.00 ppm, -100 mV / ppm (total chlorine)
2	Connection cable AK 0.5 (SN6/BNC), cable length 0.5 m
1	PH-electrode PHPK-2, plastic shaft, shaft length = 120 mm, PG 13.5.
1	Redox (ORP) combination electrode MVPK-2 in plastic, shaft length = 120 mm, PG 13.5
1	Temperature sensor ETEP, PT 100
1	PH-buffer solution 50 ml, pH 4
1	PH-buffer solution 50 ml, pH 7
1	Redox buffer solution 50ml, 468mV
2	Injection valve type: IVN, ½"m, hose connection: 4x6 mm, O-rings in Viton®, housing in PVDF
6	Drill-tapping clamps
2	Shut-off valves
2	Pressure hoses
2	Connection hoses





| Disinfection systems



5. Disinfection systems - DOSADes

DOSAactive Electrolyses unit Series D

5.4

5.1	Chlorine dioxide units
5.1	DOSAiX 8 g/h
5.1	DOSAiXD 5 – 100 g/h
5.1	DOSAiXD Batch 60 – 500 g/h
5.1	DOSAiX DI 36 – 640 g/h
5.1	DOSAiX DP 36 – 640 g/h
5.1	DOSAIX CP 260 – 6.128 g/h
5.2	DOSALux UV-Units
5.2	DOSALux UV-disinfection units Series ALB
5.2	DOSALux UV-disinfection units Series LCD + LCDP
5.2	DOSALux UV-disinfection units Series RDS80 + RDSP80
5.2	DOSALux UV-disinfection units Series DS400 + DSRA400
5.2	DOSALux UV-disinfection units Series RLCD + RLCDP
5.2	DOSALux UV-disinfection units Series SMPDS + SMPDSRA
5.2	DOSALux UV-disinfection units Series Pool-LCD
5.2	DOSALux UV-disinfection units Series ABOX
5.2	DOSALux UV-disinfection units Series D-LCD
5.2	DOSALux UV-disinfection units Series D-TFT
5.3	Spare Parts for UV-Sterilizer
5.3	DOSALux standard- and high-power UV-lamp
5.3	DOSALux medium-pressure and high-power UV-lamp
5.3	DOSALux high-power UV-lamp for ABOX® C
5.3	DOSALux quartz protection tube QSR
5.3	Spare Parts for DOSALux UV-reactors
5.3	UV-Sensors for DOSALux UV-disinfection units
5.4	DOSAactive Electrolyses unit



Chlorine dioxide unit Type DOSAiX 8

The compact chlorine dioxide unit **DOSAIX 8** is designed for use in small and medium-sized systems. This unit generates **up to 8 g/h** chlorine dioxide by the acid/chlorite method with a ClO_2 stock solution concentration of 2 g/l. The unit generates the ClO_2 in proportion to the flow rate or measured value.



General information

- Chlorine dioxide generation according to the tried-andtested chlorite/acid method
- Safety standard according to DVGW Worksheet W 224
- High operational reliability
- Microprocessor control with menu-driven operating and service functions.
- 3 solenoid diaphragm dosing pumps with self-venting feature
- Reliable restart after power failure
- Direct actuation via contact water meter, IDM, 4-20 mA online chlorine dioxide measurement.

Applications

- Drinking water disinfection in public buildings, such as hospitals, nursing homes, hotels and sports facilities etc.
- Disinfectant in cooling systems and air-conditioning systems
- Applications in the beverage and food industry (e.g. bottle cleaning equipment and CIP systems etc.)

Technical specifications

Type DOSAiX 8						
CIO ₂ – output:	0.5 -8 g/h	Inputs for proportional mode:		ntact water meter with d switch I frequency output up		
Chem. consumption:	2 x 200 ml/h	proportional mode.				
Maximum operating pressure:	6 bar		to 10 4 - 20 mA	0 kHz or current output		
Concentration of CIO ₂ stock solution:	2 g/l			PLC or online chlorine dioxide meter with current out-		
Connection to the electric supply	230 V, 50/60 Hz		put 4 - 20 mA			
Type of enclosure:	IP 54	Inputs for floating-potential	PauseHigh dosage			
Dimensions (HxWxD):	890 x 535 x 345 mm	contact:	- Shot mete	Shot metering		
Weight:	approx. 33 kg		Manual meteringExternal perturbation			
Service water connection:	Hose connection 6 x 8 mm		·	nal for chemical con-		
Relay outputs for (230V, 3A):	Operating signal Warning signal Alarm signal	Included in scope of supply:	 Injection point made of PVDF, 1/2" PVDF dosing hose (5 m) 2 safety spill trays for 30 kg chemical containers 			
Type DOSAiX 8		1	1			



Chlorine dioxide units Series DOSAiXD 5 - 100

The **DOSAIXD 5-100** chlorine dioxide generation and dosing units automatically produce low-concentration chlorine dioxide stock solutions (1-3 g/l) according to the acid/chlorite method.

With DOSAiXD units, the chlorine dioxide solutions are produced unpressurised and "just in time". Ideal for both batch operation and continuous operation.

DOSAiXD generate **0-5g/h to max. 100 g/h** chlorine dioxide **unpressurised** according to the acid/chlorite method. Time-, proportional- or measurement-value controlled dosing is facilitated by the integrated multi-purpose diaphragm dosing pump.



General information

- Non-pressurised, fast and non-critical chlorine dioxide generation according to the acid/chlorite method with dilute starting chemicals.
- Proven, reliable chemical feed vial a peristaltic pump and level controller
- Level controlled water dilution
- Modern, attractive plastic housing for quick wall mounting
- Easily expanded for a multiple disinfection system
- Microprocessor control with menu-driven operating and service functions.
- Chlorine dioxide gases easily neutralised via integrated active carbon filter
- Multi-purpose solenoid diaphragm pump in PVDF
- RS 232 interface with output of all operating conditions, warning signals and error signals.
- Direct actuation via contact water meter or via 4-20 mA (IDM or online chlorine dioxide measurement).
- Online chlorine dioxide measurement and control system can be retrofitted in standard DOSAiXD 50-30 units (P, PI or PID controllers)

Applications:

- Drinking water disinfection in public buildings, such as hospitals, nursing homes, hotels and sports facilities etc.
- Disinfection in cooling systems and air-conditioning systems
- Applications in the beverage and food industry (e.g. bottle cleaning equipment and CIP systems etc.)

Scope of supply:

- 1 complete pre-assembled chlorine dioxide unit
- 1 injection valve in PVDF, 1/2" thread, male
- 1 mounting hardware for wall mounting
- 1 set of warning and information signs



Technical specifications:

С

recrimed specifications.								
Type DO\$AiXD	5	10	20	30	50	100		
CIO ₂ – output:	0 – 5 g/h	0 - 10 g/h	0 - 20 g/h	0 - 30 g/h	0 - 50 g/h	0 - 100 g/h		
Chem. consumption un-	2 x	2 x	2 x	2 x	2 x	2 x		
der full load approx.:	130 ml/h	260 ml/h	520 ml/h	780 ml/h	1.300 ml/h	2.600 ml/h		
Concentration of CIO ₂ stock solution approx.:	1 g/l	2 g/l	2 g/l	3 g/l	2 g/l	3 g/l		
Max. dosage:	5 l/h (10bar)	5 l/h (10bar)	10 l/h (10bar)	10 l/h (10bar)	30 l/h (3 bar)	33 l/h (1.5 bar)		
Max. process concentrate:	< 8 g/l							
Max. operating pressure:	See max. dosage							
Permitted environmental temperature:	+5 +40 °C							
Controller (PLC):	PLC with 2 line, backlit LCD, 16 digit LED displays: 16 geen LEDs (inputs) LED displays: 16 red LEDs (outputs) Integrated realtime clock Program memory: EEPROM Data memory: RAM, battery backup Data retention: approx. 10 years Memory test: On switch on							
Connection to the electric supply:	100 - 240 VAC, 47/63 Hz oder 24 VDC / 40 VA max.							
Type of enclosure:	IP 64							
Dimensions (H x W x D):	890 x 520 x 355 mm				+ Wall mounting for dosing pump and PRV*			
Weight approx.:	25	kg	28	kg	33 kg	36 kg		
Service water connection:	(0.3), 2 – 6 bar / hose connection 6 x 8 mm / +5 to+30°C							
Dosing line connection:	PVDF – connection for 6 x 8 mm hose 8 x 10 mm							
Input contact water meter:	Floating potential contact or Hall sensor (turbine)							
Design and external actuation for the dosing pump:	Constant, ppm and batch dosing, pulse division, pulse multiplication Digital input for contact pulse and level switch (empty indicator) Analogue input for 0/4-20 mA, or 0-10 V							
Floating potential relay output for:	Warning signal and alarm signal (230 VAC, 5A)							
Interfaces:		RS232 / optional RS485						
Type DOSAiXD:								

^{*} PRV = pressure retention valve



Chlorine dioxide units Series DOSAiXD Batch 60 - 500

The DOSAiXD Batch 60-500 chlorine dioxide and dosing units generate low-concentration chlorine dioxide stock solutions (2-3 g/l) automatically according to the acid/chlorite method. With DOSAiXD units, chlorine dioxide is produced unpressurised. 10 l/h of a 0.2% - or 0.3% chlorine dioxide (20 - or 30 g of chlorine dioxide/h), depending on the type of unit, is generated in a reactor. The level in the batch tank is continuously topped up via the reactor. The unit stores about 50-450 litres of the dilute chlorine dioxide solution, depending on the type of unit.

Batch units are ideal for intermittent operation and/or supplying several disinfection systems.

Time, proportional- or measurement-value controlled dosages can be implemented via multipurpose external diaphragm dosing pumps.





General information

- Pressure-free, fast, non-critical chlorine dioxide generation according to the acid/chlorite method with dilute starting chemicals.
- Proven, reliable chemical feed via peristaltic pump and level control
- Level-controlled water dilution
- Modern, attractive plastic housing for quick wall mounting
- Multiple disinfection system
- Microprocessor control with menu-driven operating and service functions.
- Chlorine dioxide gases easily neutralised via integrated active carbon filters
- Multi-purpose solenoid diaphragm pump in PVDF
- RS 232 interface with output of all operating conditions, warning signals and error signals.
- Direct actuation of dosing pumps via water meter or via 4-20 mA (IDM or online chlorine dioxide measurement).
- Online chlorine dioxide measurement and control system can be retrofitted in standard DOSAiXD 5-30 units (P, PI or PID controllers)

Applications

- Disinfection in cooling systems and air-conditioning systems
- Applications in the beverage and food industry (e.g. bottle cleaning equipment and CIP systems etc.)

Scope of supply:

- 1 complete, pre-assembled chlorine dioxide unit
- 1 batch tank (60 to 500 litres)
- 1 diaphragm dosing pump with PRV (Type AMS 20 litres, 7 bar) and mounting bracket
- 1 collection tank (80 to 500 litres)
- 1 injection valve in PVDF, 1/2" thread male
- 1 mounting hardware for wall mounting
- 1 set of warning and information signs



Type DOSAiXD Batch	60	120	250	500					
CIO ₂ – output	0 – 20 g/h	0 – 20 g/h	0 - 30 g/h	0 - 30 g/h					
Chem. consumption at full load approx.	2 x 540 ml/h	2 x 540 ml/h	2 x 780 ml/h	2 x 780 ml/h					
Concentration CIO ₂ stock solution approx.	2 g/l	2 g/l	3 g/l	3 g/l					
Max. dosing rate		20 l/h (7 bar)							
Max. process concentrate		< 8 g/l							
Max. operating pressure:		See max.	dosing rate						
Batch tank	60 I	140	250	500 I					
Size of batch tank (Ø x H)	420 x 580 mm	600 x 660 mm	670 x 880 mm	790 x 1170 mm					
Collection tank	80 I	150	400 I	500 I					
Size of collect. tank (Ø x H)	500 x 540 mm	650 x 540 mm	770 x 960 mm	860 x 980 mm					
Permitted ambient temp.		+5 to	+40°C						
Controller (PLC)	LED indicators: 16 green LEDs (inputs) LED indicators: 16 red LEDs (outputs) Integrated real-time clock Program memory: EEPROM Data memory: RAM, battery backup Data retention: approx. 10 years Memory test: on switch-on								
Electrical connection	10	00 - 240 VAC, 47/63 Hz	z or 24 VDC / 40 VA ma	Χ.					
Degree of protection		I	P 64						
Dimensions (H x W x D)		890 x 520	x 355 mm						
Weight, approx.	30 kg 35 kg								
Service water connection	(0.3), 2 – 6 bar / hose connection 6 x 8 mm / +5 to +30°C								
Dosing line connection	PVDF – connection for 8 x 10 mm hose								
Input contact water meter	Floating potential contacts or Hall sensor (turbine)								
Version and external actuation of dosing pump	Constant, ppm and batch dosing, pulse division, pulse multiplication Digital pulse input for contact pulse and level switch (empty signal) Analogue input for 0/4-20 mA or 0-10V								
Floating-potential relay outputs for	Warning signal and alarm signal (230 VAC, 5A)								
Interfaces		RS232 / RS4	85 (optional)						
Type DO\$AiXD									

^{*} PRV = pressure retention valve



Chlorine dioxide unit Type DOSAiX DI

CIO₂ - output from 36 to 640 g/h

The compact chlorine dioxide unit **DOSAIX DI** is designed for the production of medium-sized quantities. The unit operates according to the acid/chlorite method with dilute hydrochloric acid (HCl 9%) and sodium chlorite (NaClO₂ 7.5%). The ClO₂ concentration of the stock solution is 20 g/l. The chlorine dioxide generated can be dosed directly into the water system according to quantity or according to measurement value, or transferred to a storage tank.



General information

- Microprocessor controller with menu-driven operation and service functions, as well as clear alarm signals via additional LEDs
- Reliable restart after power failure
- Direct control via contact water meter, IDM, or online chlorine dioxide measurement.
- 1 mixing and reaction tank
- 1 reactor box with viewing window and a gas intake device via an activated carbon filter
- 2 precise dosing diaphragm solenoid dosing pumps for delivering the reaction chemicals to the reaction tank
- 1 pressure retention valve
- 2 dosing monitors for the dosing pumps for monitoring for perfect operation
- 1 wall-mounting bracket made of PP plastic Unit ready for installation with the above components prepared and tested.
- Voltage supply 230 V/50 Hz or 110 V 50/60 Hz
- · Degree of protection: IP 54
- Temperature range: +5 +40° C
- A 1/2", 6x8 mm injection valve made of PVDF for dosing chlorine dioxide solution directly into a pressure line and 5 m PVDF hose included in scope of supply.

Technical specifications

E

Series DOSAiX DI		36	54	140	220	400	640
Dimensions	(WxHxD)	75	750 x 1,000 x 300 900 x 1,350 x 300				0
Max. output:	gr/h	36	54	140	220	400	640
Max. pressure:	bar	12	12	8	10	10	7
Chem. consumption:	l/h	0.91	1.35	3.6	5.5	10.0	16.0
Energy consumption:	W/h	70	70	70	90	110	110
Transport weight:	kg	61	61	61	63	63	63
Price:							

Option		110 VAC
		Calibration cylinder Type CA 1 for Model DI and DP 30, 60,140
		Calibration cylinder Type CA 1 for Model DI and DP 220, 400,640



Chlorine dioxide unit Type DOSAiX DP with dilution system CIO₂ – output from 36 to 640 g/h

The compact chlorine dioxide unit **DOSAIX DP** is designed for the production of medium-sized quantities. The unit operates according to the acid/chlorite method with dilute hydrochloric acid (HCl 9%) and sodium chlorite (NaClO₂ 7.5%). The ClO₂ concentration of the stock solution is 20 g/l. The chlorine dioxide generated can be dosed directly into the water system according to quantity or according to measurement value, or transferred to a storage tank.



General information

- Microprocessor controller with menu-driven operation and service functions, as well as clear alarm signals via additional LEDs
- Reliable restart after power failure
- Direct actuation via contact water meter, IDM, or online chlorine dioxide measurement.
- 1 mixing and reaction tank
- 1 reactor box with viewing window and a gas intake device via an activated carbon filter
- 1 precise dosing diaphragm solenoid dosing pumps for delivering the reaction chemicals to the reaction tank
- 2 pressure retention valves
- 1 pressure retention valve
- 2 dosing monitors for the dosing pumps for monitoring for perfect operation
- 1 wall-mounting bracket made of PP plastic
- Unit ready for installation with the above components prepared and tested.
- Voltage supply 230 V/50 Hz or 110 V 50/60 Hz
- Protection class: IP 54
- Temperature range: +5 to +40° C
- An injection 1/2", 6x8 mm valve made of PVDF for dosing chlorine dioxide solution directly into a pressure line and 5 m PVDF hose included in scope of supply.

Е

Series DOSAiX DP		36	54	140	220	400	640
Dimensions	(WxHxD)	75	50 x 1,000 x 30	0	900 x 1,350 x 300		
Max. output:	gr/h	36	54	140	220	400	640
Max. pressure:	bar	12	12	8	10	10	7
Chem. consumption:	l/h	0.91	1.35	3.6	5.5	10.0	16.0
Energy consumption:	W/h	70	70	70	90	110	110
Transport weight:	kg	61	61	61	63	63	63
Price:							

Option		110 VAC
		Calibration cylinder Type CA 1 for Model DI and DP 30, 60.140, 640
		Calibration cylinder Type CA 1 for Model DI and DP 220, 400, 640



Chlorine dioxide unit Type DOSAiX CP

CIO₂ - output from 260 to 6,128 g/h

The compact chlorine dioxide unit **DOSAIX CP** is designed for the production of large amounts. The unit operates according to the acid/chlorite method with concentrated hydrochloric acid (HCl 33%) and sodium chlorite (NaClO₂ 25%). The ClO₂ concentration of the stock solution is 20 g/l. The chlorine dioxide generated can be dosed directly into the water system according to quantity or according to measurement value, or transferred to a storage tank.



General information

- 1 Microprocessor controller with LCD for plain text messages and a process image with indicator lights to display important messages and alarm signals. Connection to a master PLSA is via a serial interface and a Profibus interface (in preparation).
- 1 mixing and reaction tank
- 1 reactor box with viewing window and a gas intake device via an activated carbon filter
- 2 precise dosing diaphragm solenoid dosing pumps for delivering the reaction chemicals to the reaction tank
- 1 precise dosing membrane solenoid, or motorised dosing pump for delivering mixing water to the reaction tank for the
- 3 pressure retention valves
- 3 dosing monitors for the dosing pumps to monitor for proper operation
- 3 calibration cylinders for precise adjustment of the dosing pumps
- 1 pre-dilution system for rapidly mixing the chlorine dioxide for flow-controlled operation.

The system consists of the following components:

1 floating ball flow meter with magnetic switch contact,

1 check valve

1 mixer T-piece

2 shut-off valves

1 wall mounting bracket made of PP plastic, ready for assembly prepared with the above components and tested.

- Voltage supply 230 V/50 Hz or 110 V 50/60 Hz
- Protection class: IP 54
- Temperature range: +5 to +40° C



Technical specifications

Series DOSAiX CP		260	500		
Dimensions	(WxHxD)	1,000 x 1,5000 x 320			
Max. output:	gr/h	260	525		
Max. pressure:	bar	8	8		
Chem. consumption:	l/h	1.8	3.5		
Energy consumption:	W/h	70	70		
Transport weight:	kg	65	65		
Price:					

Technical specifications

Series DOSAiX CP		1000	1500		
Dimensions	(WxHxD)	1,000 x 1,700 x 320			
Max. output:	gr/h	989	1470		
Max. pressure:	bar	5	5		
Chem. consumption:	l/h	6.6	9.8		
Energy consumption:	W/h	70	70		
Transport weight:	kg	65	74		
Price:					

Series DOSAiX CP		3000	6000			
Dimensions	(WxHxD)	1,000 x 2,000 x 320				
Max. output:	gr/h	3020	6128			
Max. pressure:	bar	3	3			
Chem. consumption:	l/h	20.8	40.8			
Energy consumption:	W/h	70	70			
Transport weight:	kg	78	84			
Price:						

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DOSALux UV desinfection units Series ALB

0.3 - 2.70 m³/h



General information

Output range*: 0.30 - 2.70 m³/h
 Operating pressure: max. 9 bar
 Water temperature: 2 - 60° C

- High-performance low-pressure UV-C lamps in the 254 nm range, minimum lamp lifetime approx. 9000 hours
- Reactor made of stainless steel material 1.4301 (1.4404 available on request)
- Side inlet and outlet (except 16-107/1-12 ALB)
- Upper maintenance screwed joint for mounting the quartz glass protection tubes and for easy access to the reactor chamber
- Single-lamp system with high-quality, centrally mounted quartz protection tube.
- Lamp guide opening with O-ring seal
- Protection class: IP 65

16-107/1-12 ALB

16-403/1-16 ALB

Technical specifications

Series ALB		16-107/1-12 ALB	16-403/1-16 ALB	16-405/1-30 ALB	16-412/1-40 ALB			
Flow rate*	I / min m³/h	5 0.30	10 0.60	19 1.14	45 2.70			
Connected load	Watt	12	16	30	40			
Reactor connection	inch	1/8	1/2	3/4	1			
Number of lamps		1	1	1	1			
Lamp type		UVL 12	UVL 16	UVL 30	UVL 40			
UV-C dose	J/m²	> 300	> 300	> 300	> 300			
Installed dimensions Height H Width W	mm	267 53	394 90	524 90	925 90			
*The max. Flow rates are bo	*The max. Flow rates are based on a transmission power T _{1 cm} of 99% of a measured UV-C dose of 300 J/m							

Order code

DOSALux A	\LB			
		Connected load	Flow rate	
		Watt	m³/h	
	16-107/1-12	12	0,30	
	16-403/1-16	16	0,60	
	16-405/1-30	30	1,14	
	16-412/1-40	40	2,70	

ALB	16-107/1-12	(example order)	
Your select	ion		
ALB			



DOSALux UV-Disinfection units Series LCD +LCDP

1.20 ... 12.00 m³/h



- 16-480/1-80

General Information:

• Output range*: 1.20 ... 12,00 m³/h Operating pressure: max. 9 bar

Water temperature: 2 ... 60° C

- High-performance low-pressure UV-C lamps in the 254 nm range, minimum lamp life approx ca. 9.000 hours
- Reactor made of stainless steel material 1.4301, (1.4404 available on request)
- Inlet and outlet on the side
- Flammable connectors made of stainless steel of sampling (except for 16-405/1-30,16-412/1-40 und 16-450/1-40)
- Connector for UV-C Sensor (LCDP) (except 16-450/2-40)
- Upper maintenance screwed joint for mounting the quartz glass protection tubes and for easy access to the reactor chamber
- Top ventilation valve and bottom drain valve as standard
 - (except 16-405/1-30,16-412/1-40 und 16-440/1-40)
- Multiple lamp system with high-quality, centrally mounted quartz glass protection tube
- Different UV controllers are available:
- Type "LCD" or Type "LCDP"

Options:

 4-20 mA output for the radiation intensity and temperature

UV- reactors available on request for:

- Agressive media
- Hot water
- Manual, automatic or chemical cleaning

Technical specifications

Serie LCD + LCDP		16-405/ 1-30	16-412/ 1-40	16-440/ 1-40	16-450/ 2-40	16-480/ 1-80	16-550/ 2-40	16-80/ 2-80
Flow rate*	l/min m³/h	20 1,20	45 2,70	60 3,60	75 4,50	85 5,10	100 6,00	200 12,00
Connected load	Watt	30	40	40	80	80	80	160
Reactor connection	Inch	3/4	1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Ventilation connection	Inch	-	-	1/2	-	1/2	1/2	1/2
Extraction connection	inch	1	-	1/8	-	1/8	1/8	1/8
Number of lamps		1	1	1	2	1	2	2
Lamp type		UVL 30	UVL 40	UVL 40	UVL 40	UVL 80	UVL 40	UVL 80
UV-C dose	J/m²	> 300	> 300	> 300	> 300	> 300	> 400	> 400
Dimensions Reactor Height H Width W	mm	524 90	925 90	880 200	925 230	880 200	985 215	985 185
Dimensions Height H Width W Depth D	mm	160 200 95	160 200 95	160 200 95	190 240 95	160 200 95	190 240 95	190 240 95

*The max. flow rates are based on a transmission power T_{1cm} of 99% of a measured UV-C dose of 400J/m² after about 9000 hours



Elec	trical	UV-Controller	16-405/ 1-30	16-412/ 1-40	16-440/ 1-40	16-450/ 2-40	16-480/ 1-80	16-550/ 2-40	16-80/ 2-80
		Power Supply	230 V – 50/60 Hz.						
		El. Connected load	30 Watt	40 Watt	40 Watt	80 Watt	80 Watt	80 Watt	160 Watt
		Protection class				IP 55			
		Connection lead, length approx.				1 m			
		Lamp connection lead, length approx.				1 m			
	CD	LCD (microprocessor controlled)				•			
		Operating hours counter	•						
		Red LED for fault signals	•						
LCDP		Alarm relay with floating potential contact, NO/NC	•						
		Monitor for lamp operation	•						
		Alarm relay, 230V output, 2A max., NO/NC	•						
		Resettable hour meter with alarm on reaching the end of the lamp service		•					
		ch-off when the temperature of UV reactor and the cotroller is high	•						
		Monitoring of radiation intensity and temperature (with default values)		•					
	4-20	OmA output				Optional			



Order Code

Series DOSALux LCD						
		Connected load	Flow rate			
		Watt	m³/h			
	16-405/1-30	30	1,20			
	16-412/1-40	40	2,70			
	16-440/1-40	40	3,60			
	16-450/2-40	80	4,50			
	16-480/1-80	80	5,10			
	16-550/2-40	80	6,00			
	16-80/2-80	160	12,00			

LCD	16-550/2-40	(example order)	
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Your selection:

Order Code:

Series DOS	Series DOSALux LCDP					
		Connected load	Flow rate			
		Watt	m³/h			
	16-405/1-30	30	1,20			
	16-412/1-40	40	2,70			
	16-440/1-40	40	3,60			
	16-480/1-80	80	5,10			
	16-550/2-40	80	6,00			
	16-80/2-80	160	12,00			
		Options:				
		0 no				
		1 4 – 20 mA outp	out			

LCDP 16-550/2-40 0 (example order)

Your selection:

LCDP				
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DOSALux UVdesinfection units series RDS80 + RDSP80

65 ... 200 m³/h



General information

Delivery range*: 65 ... 200 m³/h
 Operating pressure: max. 9 bar
 Water temperature: 2 ... 60° C

- High-performance low-pressure UV-C lamps in the 254 nm range, minimum lamp lifetime approx. 9,000 hours
- Reactor made of stainless steel material 1,4301;
 (1.4404 on request)
- Inlet and Outlet on the side
- Flammable connectors made of stainless steel for sampling
- Connection for UV-C sensor (RDSP80)
- Upper maintenance screwed joint for mounting the quartz glass protection tubes and for easy access to the reactor chamber
- Top ventilation valve and bottom drain valve as standard
- Multi-lamp system with high-quality, centrally mounted quartz-glass protection tube
- Different UV- controllers are available:
- Type "RDS80" or type "RDSP80"

UV reactors available on request:

- aggressive media
- hot water
- manual, automatic or chemical cleaning

UV controller available on request:

- Output 4-20 mA
- Remote maintenance
- Ö-Norm/DVGW certified UV-C sensor

Series RDS80 + RDSP80		16-80/6-80	16-80/8-80	16-80/10-80	16-80/12-80
Flow rate*	m³/h	65	80	135	200
Connected load	Watt	480	640	800	960
		DN 100	DN 100	DN 150	DN 150
Reactor connection		– PN10	– PN10	– PN10	– PN10
Ventilation connection	inch	1/2	1/2	1/2	1/2
Extraction connection	inch	1/8	1/8	1/8	1/8
Number of lamps		6	8	10	12
Lamp type		UV 80	UV 80	UV 80	UV 80
UV-C dose	J/m²	> 400	> 400	> 400	> 400
Dimensions of reactor Height H Width W	mm	1.120 463	1.120 463	1.120 507	1.140 572
Dimensions of controller Height H Width W Depth D	mm	500 400 250	500 400 250	750 400 250	750 400 250

^{*} The max. flow rates are based on a transmission power $T_{1\ cm}$ of 99% of a measured UV-C dose of 400 J/m² after about 9000 hours.



Elec	trica	II UV controller	16-80/ 6-80	16-80/ 8-80	16-80/ 10-80	16-80/ 12-80		
		Power supply	230 V – 50/60 Hz.					
		El. Connected load	480 Watt	640 Watt	800 Watt	960 Watt		
		Protection class		IP	54			
		Connection lead, length approx.		2,5	m			
		Lamp connection lead, length approx.		2,5	m			
		Lamp operation monitor		•	•			
		Operating hours meter and resettable hour meter with alarm on reaching the end of the lamp service life		•	•			
	30	Realys with floating potential contact, NO/NC, 230 V output, 5A max.		•	•			
	RDS80	Temperature monitoring in the controller	•					
P80		ON / OFF Timer	•					
RDSP80		Datalogging software	Optional					
		Main switch	•					
		Visual fault signal	•					
		Programmable multi-information display	•					
		General operation monitoring using programmable microprocessor	•					
		Remote On/Off	•					
		Storage of identification number of defective lamps	•					
		nitoring of radiation intensity and tem- ature (with default values)	•					
		tchoff when the temperature of the UV ctor and the controller is high	•					
		talogging of radiation intensity and inperature software	Optional					

Opti	Options				
	Shutdown on flooding				
	Radiation intensity measured in W/m²				
	4/20 mA output for radiation intensity and temperature				
	Flow rate monitor (shutdown on no flow)				
	Connection to a contact water meter				
	Preparation for a connection of the water meter				
	Software for datalogging				
	UV-C calculation (J/m²) only in connection with contact water meter				



Order Code

Series DOSALux RDS80						
		Connected load	Flow rate			
		Watt	m³/h			
	16-80/6-80	480	65			
	16-80/8-80	640	80			
	16-80/10-80	800	135			
	16-80/12-80	960	200			

RDS80	16-80/6-80	(example order)	

Your selection:

BDCOO		
KD280		

Order Code

Series DOSALux RDSP80						
		Connected load	Flow rate			
		Watt	m³/h			
	16-80/6-80	480	65			
	16-80/8-80	640	80			
	16-80/10-80	800	135			
	16-80/12-80	960	200			

RDSP80	16-80/6-80	(example order)				
Your select	Your selection:					
RDSP80						

Order Code

Order Code Code							
Options DO	Options DOSALux RDSP80						
1	1 Shutdown on flooding						
2	Radiation intensity measured in W/m²						
3	4/20 mA output for radiation intensity and temperature						
4	Flow rate monitor (shutdown on no flow)						
5	Connection to a contact water meter						
6	Preparation for a connection of the water meter						
7	Software for datalogging						
8	UV-C calculation (J/m²) only in connection with contact water meter						



DOSALux UV desinfection units Series DS PLUS 400 + DS PLUS RA400

50 ... 980 m³/h



General information:

Delivery range*: 50 ... 980 m³/h
 Operating pressure: max. 9 bar
 Water temperature: 0 ... 50° C

- High-Performancce low-pressure UV-C amalgam lamps in the 254 nm range, lamp lifetime approx.
 14.000 hours
- Reactor made of stainless steel material 1.4404
- Top inlet and outlet
- Flammable connectors made of stainless steel for sampling
- Side maintenance screwed joint for mounting the quartz glass protection tubes and for easy access to the reactor chamber
- Multi-Lamp system with high-quality, centrally mounted quartz glass protection tube
- UV controllers type "DS PLUS"
- Automatic cleaning type "DS PLUS RA"

UV reactors available on request for:

- Aggressive media
- Hot water

UV controllers on request for:

- Output 4-20mA
- Remote maintenance
- Ö-Norm/DVGW certified UV-C sensor

Technical specifications

Series DS PLUS 400 DS PLUS RA 400		16-400/ 1-400	16-400/ 2-400	16-400/ 3-400	16-400/ 4-400
Flow rate*	m³/h	50	100	150	250
Connected load	Watt	440	880	1300	1760
Reactor connection		DN 80 - PN10	DN 100 - PN10	DN 150 - PN10	DN 200 - PN10
Ventilation connection	inch	1/2	1/2	1/2	1/2
Number of lamps		1	2	3	4
Lamp type		UVL 400	UVL 400	UVL 400	UVL 400
UV-C dose	J/m²	> 400	> 400	> 400	> 400
Dimensions of Reactor Height H Width W	mm	330 1.800	380 1.800	500 1.800	670 1.800
Dimensions of Controller Height H Width W Depth D	mm	500 400 250	500 400 250	750 400 250	750 400 250

*The max, flow rates are based on a transmission power T_{1cm} of 99% of a measured UV-C dose of 400 J/m² after about 14,000 hours.



Series DS PLUS 400 DS PLUS RA 400		16-400/ 5-400	16-400/ 6-400	16-400/ 8-400	16-400/ 10-400	16-400/ 12-400
Flow rate*	m³/h	300	420	600	830	980
Connected load	Watt	2180	2600	3500	4400	5300
Reactor connection		DN 200 - PN10	DN 250 - PN10	DN 250 - PN10	DN 300 - PN10	DN 350 - PN10
Ventilation connection	Zoll	1/2	1	1	1	1
Number of lamps		5	6	8	10	12
Lamp type		UVL 400				
UV-C dose	J/m²	> 400	> 400	> 400	> 400	> 400
Dimensions Reactor Height H Width W	mm	670 1.800	720 1.800	755 1.800	820 1.80	820 1.800
Dimensions of Controller Height H Width W Depth D	mm	800 600 300	800 600 300	1000 800 300	1000 800 300	1200 800 300

^{*} The max. flow rates are based on a transmission power T_{1cm} of 99% of a measured UV-C dose of 400 J/m² after about 14,000 hours.



Elec	ctrical UV Controller	16-400/ 1-400	16-400/ 2-400	16-400/ 3-450	16-400/ 4-400	
	Power supply		230 V – 3	50/60 Hz.		
	Connected load	440 Watt	880 Watt	1300 Watt	1760 Watt	
	Protection class		IP	54		
	Connection lead, length approx.		2.5	5 m		
	Lamp connection lead, length approx.		2.5	5 m		
	Lamp Operating monitor			•		
	Operating hours counter and resetta- ble hour meter with alarm on reaching the end of lamp lifetime			•		
	Realys with floating potential contact, NO/NC, 230V output, 5A max.	•				
PLUS 400	Temperature monitoring in the control- ler	•				
	ON / OFF Timer	•				
P.E	Datalogging Software		Opti	ional		
DS	Main switch		•	•		
	Visual fault signal		•	•		
	Programmable multi-information display	•				
	Gerneral operational monitoring using programmable microprocessor	•				
	Remote On/Off	•				
	Storage of identification number of defective lamps	•				
	Monitoring of radiation intensity and temperature (with default values)	•				
	Shutdown when the temperature of the UV reactor and the controller is high	•				
	Datalogging of radiation intensity and temperature software		Opti	ional		



Elec	trical UV controller	16-400/ 5-400	16-400/ 6-400	16-400/ 8-400	16-400/ 10-400	16-400/ 12-400
	Power supply	230 V – 50/60 Hz.				
	Connected load	2180 Watt	2600 Watt	3500 Watt	4400 Watt	5300 Watt
	Protection class			IP 54		
	Connection lead, length approx.			2.5 m		
	Lamp connection lead, length approx.			2.5 m		
	Lamp operating monitor			•		
	Operating-hours meter and resettable hour meter with alarm on reaching the end of lamp lifetime			•		
	Realys with floating potential contact, NO/NC, 230V output, 5A max.			•		
8	Temperature monitoring in the controller	•				
PLUS 400	ON / OFF Timer	•				
F	Datalogging Software			Optional		
DS	Main switch			•		
	Visual fault signal			•		
	Programmable multi-information display			•		
	General operation monitoring using programmable microprocessor			•		
	Remote On/Off	•				
	Storage of identification number of defective lamps	•				
	Monitoring of radiation intensity and temperature	•				
	Shutdown when the temperature of the UV reactor and the controller is high	•				
	Datalogging of radiation intensity and temperature software			Optional		

Opti	ons
	Shutdown on flooding
	Radiation intensity measured in W/m ²
	4/20mA output for radiation intensity and temperature
	Flow rate monitor (Shutdown on no flow)
	Connection to a contact water meter
	Preparation for a connection of the water meter
	Software for datalogging
	UV-C calculation (J/m²) only in connection with contact water meter



Order Code

Series DOSALux DS PLUS 400			Series DOSALux DS PLUS 400						
	Anschlussleistung	Durchflussleistung							
	Watt	m³/h							
16-400/1-400	440	50							
16-400/2-400	880	100							
16-400/3-400	1300	150							
16-400/4-400	1760	250							
16-400/5-400	2180	300							
16-400/6-400	2600	420							
16-400/8-400	3500	600							
16-400/10-400	4400	830							
16-400/12-400	5300	980							

DS PLUS 400 16-400/6-400	(Bestellbeispiel)	
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Ihre Auswahl

D.O. D.I.II.O. 4000		
DS PLUS 400		i
		i l

Order Code

Series DOSALux DS	Series DOSALux DS PLUS RA400						
		Connected load	Flow rate				
		Watt	m³/h				
	16-400/3-400	1300	150				
	16-400/4-400	1760	250				
	16-400/5-400	2180	300				
	16-400/6-400	2600	420				
	16-400/8-400	3500	600				
1	16-400/10-400	4400	830				
1	16-400/12-400	5300	980				

DS PLUS RA400	16-400/4-400	(example order)	
Ihre Auswahl			
DS PLUS RA400			

Order Code

older code						
Options DC	DSALux DSRA400					
1	1 Shutdown on flooding					
2	Radiation intensity measured in W/m ²					
3	3 4/20mA output for radiation intensity and temperature					
4	4 Flow rate monitor (shutdown on no flow)					
5	Connection to a contact water meter					
6	Preparation for a connection of the water meter					
7	Software for datalogging					
8	UV-C calculation (J/m²) only in connection with contact water meter					



DOSALux UV disinfection units Series RLCD + RLCDP

20 ... 40 m³/h



General information:

Output range*: 20 ... 40 m³/h
 Operating pressure: max. 9 bar
 Water temperature: 2 ... 60° C

- High-performance low-pressure UV-C lamps in the 254nm range, minimum lamp lifetime approx. 9000 hours
- Reactor made of stainless steel material 1.4301, (1.4404 on request)
- Inlet and outlet on the side
- Flammable connectors made of stainless steel for sampling
- Connection for UV-C sensor (RLCDP)
- Upper maintenance screwed joint for mounting the quartz glass protection tubes and for easy access to the reactor chamber
- Top ventilation valve and bottom drain valve as standard
- Multi lamp system with high-quality, centrally mounted quartz glass protection tube
- Different UV controllers are available
 - Type **RLCD** or type **RLCDP**

Options

 4-20mA output for the radiation intensity and temperature

UV-reactors available on request for:

- agaressive Medien
- hot water
- manual, automatic or chemical cleaning

Technical specifications

Series RLCD + RLCDP		16-80/ 3-80	16-80/4-80	16-80/5-80
Flow rate*	l/min m³/h	333 20	500 30	666 40
Connected load	watt	335	335	445
Reactor connection	Inch	2	DN 80 - PN10	DN 80 - PN10
Ventilation connection	Inch	1/2	1/2	1/2
Extraction connection	Inch	1/8	1/8	1/8
Number of lamps		3	4	5
Lamp type		UVL 40	UVL 80	UVL 80
UV-C dose	J/m²	> 400	> 400	> 400
Size of reactor Height H Width W	mm	985 230	1.080 338	1.080 338
Dimensions Height H Width W Depth D	mm	400 300 200	400 300 200	400 300 200

*The max. flow rates are based on a transmission power T_{1cm} of 99% of a measured UV-C dose of 400 J/m² after about 9000 hours.



Electri	ical	UV controller	16-80/ 3-80	16-80/4-80	16-80/5-80
		Power supply		230 V – 50/60 Hz.	
		Electrical connected load	335 Watt	335 Watt	445 Watt
		Protection class		IP 55	
		Connection lead length approx.		1.5 m	
		Lamp connection lead, length approx.		2.5 m	
		LCD (microprocessor controlled)		•	
	RLCD	Operating hours counter	•		
RLCDP	R	Resettable hour meter with alarm on reaching the end of the lamp service life		•	
됩		Red LED for fault signals		•	
		Alarm relay, with floating potential contact, NO/NC		•	
		Monitor for lamp operation		•	
		Alarm relay, 230 V output, 2A max., NO/NC		•	
	Monitor for radiation intensity and temperature			•	
		down when UV reactor is at high perature		•	
4	4-20) mA output		Optional	



Order Code

Series DOS	Series DOSALux RLCD					
		Connected load	nected load Flow rate			
		Watt	m³/h			
	16-80/3-80	335	20			
	16-80/4-80	333	30			
	16-80/5-80	445	40			

RLCD	16-80/4-80	(Example order)	

Your selection:

_			
ſ	RLCD		

Order Code

Series DOSALux RLCDP			
	Connected loa	id Flow rate	
	Watt	m³/h	
16-80/3-80	335	20	
16-80/4-80	333	30	
16-80/5-80	445	40	
	Option	s:	
	0 no		
	1 4-20 1	mA output	

RLCDP	16-80/4-80	0	(example order)		
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Your selection:

RLCDP			
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DOSALux UV desinfection units Series SMPDS + SMPDSRA

40 ... 1,200 m³/h





General information:

Delivery range*: 40 ... 1.200 m³/h
 Operating pressure: max. 9 bar
 Water temperature: 2 ... 60° C

- High-performance medium-pressure UV-C lamps in the 254 nm range, minimum lamp life approx. 5.000 hours
- Reactor made of stainless steel Material 1.4404
- Side inlet and outlet
- flammable connectors made of stainless steel for sampling
- Connection for UV-C sensor
- Side maintenance screwed joint for mounting the quartz glass protection tubes and for easy access to the reactor chamber
- Top ventilation valve and bottom drain valve as standard
- Single/Multi lamp system with high-quality, centrally mounted quartz glass protection tube.
- UV controller Type "SMPDS" or Type "SMPDSRA"

UV-Reaktoren available on request for

- aggressive media
- automatic cleaning

UV-controller available on request

- output 4-20 mA
- remote maintenance
- Ö-Norm/DVGW certified UV-C sensor

Technical specifications:

Series SMP		16- SMP10/ 1-1000	16- SMP20/ 1-2000	16- SMP25/ 1-2500	16- SMP35/ 1-3500	16- SMP50/ 2-2500	16- SMP70/ 2-3500	16- SMP105/ 3-3500	16- SMP140/ 4-3500
Flow rate*	m³/h	40	90	130	250	350	500	750	1200
Connected load	watt	1000	2000	2500	3500	5000	7000	10500	14000
Reactor connection		DN 80 - PN10	DN 100 - PN10	DN 150 - PN10	DN 200 - PN10	DN 200 - PN10	DN 250 - PN10	DN 300 - PN10	DN 400 - PN10
Ventilation connection	inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Extraction connection	inch	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
Discharge	inch	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
Number of lamps		1	1	1	1	2	2	3	4
Manual cleaning		•	•	•	•	•	•	•	•
Lamp type		UVL 1000	UVL 2000	UVL 2500	UVL 3500	UVL 2500	UVL 3500	UVL 3500	UVL 3500
UV-C dose	J/m²	> 800	> 800	> 800	> 800	> 800	> 800	> 800	> 800
Dimensions reactor: Height H Width B	mm	408 1.010	408 882	468 932	604 986	606 1.066	606 1.066	606 1.066	656 1.162
Size of controller Height H Width B Depth T	mm	500 400 300	750 400 300	750 400 300	750 400 300	1200 600 400	1200 600 400	1800 600 400	1800 600 400

*The max. flow rates are based on a transmission power $T_{1\,cm}$ of 99% of a measured UV-C dose of 800 J/m² after about 5,000 hours.



Elec	trica	al UV controller	16- SMP10 1-1000	16- SMP20 1-2000	16- SMP25 1-2500	16- SMP35 1-3500	16- SMP50 2-2500	16- SMP70 2-3500	16- SMP10 53- 3500	16- SMP14 0 4-3500
		Power supply	230 V - 50/60 Hz.							
		Connected load	1000 Watt	2000 Watt	2500 Watt	3500 Watt	5000 Watt	7000 Watt	10500 Watt	14000 Watt
		Protection class				IP	54			
		Connection lead length approx.	2,5 m							
		Lamp connection lead Length approx.	2,5 m							
	SMPDS	Lamp operation monitor				•	•			
		Operating hours counter and resettable hour meter with alarm on reaching the end of the lamp service life		•						
RA		Relays with floating potential contact, NO/NC, 230 V output, 5A max.	•							
SMPDSRA		Temperature monitoring in the Controller	•							
Š		ON / OFF timer	•							
		Datalogging software	Optional							
		Main switch	•							
		Visual fault signal	•							
		Programmable multi-information display	•							
		General operational monitoring using programmable microprocessor	•							
		Remote On/Off	•							
		Storage of identification number of defective lamps	•							
		Monitoring of radiation intensity and temperature (with default values)		•						
	Swi	Switch-off when the temperature of the UV reactor and the controller is high		•						
	Dat	talogging of radiation intensity and nperature software	Optional							

Op	Options Control of the Control of th				
	Shutdown on flooding				
	Radiation intensity measured in W/m²				
	4/20 mA output for radiation intensity and temperature				
	Flow rate monitor (shutdown on no flow)				
	Connection to a contact water meter				
	Preparation for a connection of the water meter				
	Software for datalogging				
	UV-C calculation (J/m²) only in connection with contact water meter				



Order code:

DOSALux SMPDS							
	Connected load:	Flow rate:					
	Watt	m³/h					
16-10/1-1000	1000	40					
16-20/1-2000	2000	90					
16-25/1-2500	2500	130					
16-35/1-3500	3500	250					
16-50/2-2500	5000	350					
16-70/2-3500	7000	500					
16-105/3-3500	10500	750					
16-140/4-3500	14000	1.200					

SMPDS	16-25/1-2500	(example order)						
Your selecti	Your selection:							
SMPDS								

Order code:

DOSALux SA	DOSALux SMPDSRA							
		Connected load:	Flow rate:					
		Watt	m³/h					
	16-10/1-1000	1000	40					
	16-20/1-2000	2000	90					
	16-25/1-2500	2500	130					
	16-35/1-3500	3500	250					
	16-50/2-2500	5000	350					
	16-70/2-3500	7000	500					
	16-105/3-3500	10500	750					
	16-140/4-3500	14000	1.200					

SMPDSRA	16-25/1-2500	(example order)					
Your selection	Your selection:						
SMPDSRA							

Order code:

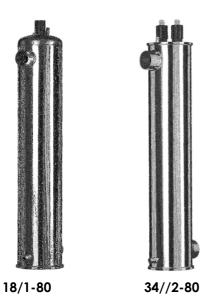
Clad code.						
Options Do						
1	Shutdown on flooding					
2	Radiation intensity measured in W/m²					
3						
4	Flow rate monitor (shutdown on no flow)					
5	Connection to a contact water meter					
6						
7	Software for datalogging					
8	UV-C calculation (J/m²) only in connection with contact water meter					



DOSALux UV desinfection units Series Pool LCD

4 - 34 m³/h





UV-C dose of 250 J/m² after about 9000 hours.

General information

Delivery range*: 4 - 34 m³/h
 Operating pressure: max. 9 bar
 Water temperature: 2 - 60° C

- High-performance low-pressure UV-C lamps in the 254 nm range, lamp service life approx. 9000 hours
- Reactor made of stainless steel material 1.4301 (1.4404 available on request)
- Inlet and outlet on the side
- Flammable connectors made of stainless steel for sampling
- Upper maintenance screwed joint for mounting the quartz glass protection tubes and for easy access to the reactor chamber
- Top ventilation valve and bottom drain valve as standard
- Single/Multi-lamp system with high-quality, centrally mounted quartz glass protection tube.
- UV controller Type "Pool LCD"

Series Pool LCD		16-4/1-40	16-7/1-40	16-14/1-80	16-18/1-80	16-34/2-80
Flow rate*	l/h m³/h	67 4	115 7	235 14	300 18	565 34
Connected load	Watt	40	40	80	80	150
Reactor connection	inch	1 1/2	2	2	2	2 1/2
Ventilation connection	inch	1/2	1/2	1/2	1/2	1/2
Extraction connection	inch	1/8	1/8	1/8	1/8	1/8
Number of lamps		1	1	1	1	2
Lamp type		UVL 40	UVL 40	UVL 80	UVL 80	UVL 80
UV-C dose	J/m²	> 250	> 250	> 250	> 250	> 250
Size of reactor Height H Width W	mm	880 215	900 254	900 254	900 268	900 268
Size of controller Height H Width W Depth D	mm	160 200 95	160 200 95	160 200 95	160 200 95	190 240 95



Elec	trical UV controller	16-4/1-40	16-7/1-40	16-14/1-80	16-18/1-80	16-34/2-80	
	Power supply	230 V – 50/60 Hz.					
	Connected load	40 Watt	40 Watt	80 Watt	80 Watt	160 Watt	
	Protection class			IP 55			
	Connection lead length approx.			1.0 m			
CD	Lamp connection lead Length approx.	1.0 m					
Pool	LCD (microprocessor controlled)			•			
2	Operating hours counter			•			
	Red LED for fault signals	t signals •					
	Alarm relay, with floating potential contact, NO/NC	•					
	Alarm relay, 230V output, 2A max., NO/NC			•			

Order code

5.45. 5545						
DOSALux Pool LCD						
Connected load Flow rate						
	Watt	m³/h				
16-4/1-40	40	4				
16-7/1-40	40	7				
16-14/1-80	80	14				
16-18/1-80	80	18				
16-34/2-80	160	34				
	16-4/1-40 16-7/1-40 16-14/1-80 16-18/1-80	Connected load Watt 16-4/1-40	Connected load Flow rate Watt m³/h 16-4/1-40 40 4 16-7/1-40 40 7 16-14/1-80 80 14 16-18/1-80 80 18			

Pool LCD 16-14/1-80 (example order)

Your selection

Pool LCD		
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DOSALux UV desinfection units Series ABOX® C

Certificated according to ÖNORM M 5873-1: 2001, according to the current drinking water DIN V2001, 1.6 - 28 m³/h



- Lamp guide opening with O-ring seal
- Degree of protection: IP 65
 Upper maintenance flange for mounting the
- quartz glass protection tubes and for easy access to the reactor chamber Control cabinet with UV monitor for monitoring the operation of the unit. An LCD shows
- the measured UV intensity in relative %, or in W/m², and the operating messages and fault messages in plain text.
 Temperature measurement (optional)
- External release and digital output to acctuate a discharge valve (cooling)

General information

Delivery range*: 1.6 - 28
Operating pressure: max. 10 bar
Water temperature: 2 - 45°C
Ambient temperature: 0 - 50°C

- Reactor made of stainless steel 1.4571, two bath pickled and electropolished
 With side inlet and outlet pipe connections, or
- flanges with integrated deflection plates and pipe connections depending on the model for flameable stainless steel sampling valves
- Side connector socket with screw-in, selectiveUV-C sensor and side viewing window according
- to DVGW W-294

 Top ventilation valve and bottom drain valve as standard
- Single or multi-beam system with high-quality, centrally-mounted quartz protection tubes
- High-performance low-pressure UV-C lamps in the 254 nm range, minimum lamp life 9000 hours
- Signal LEDs to indicate operation or malfunction
 Floating-potential signal contacts and pre-alarm
- malfunction
- 4-20 mA signal output proportional to the UV-C intensity
- Power supply 90 260 VAC, 50/60 Hz, power lead with Euro plug, approx. 2 m

Series ABOX®		C 60	C 200	C 600
Flow rate*	m³/h	166	7	28
Connected load	Watt	75	210	700
IIV largers	Number of	1	1	3
UV lamps	Watt	60	200	200
Reactor connection		R ¾''	R 2''	ND 80
Size of reactor Height H Width W	mm	600 160	1300 185	1000 368
Size of controller Height H Width W Depth D	mm	400 260 123	400 260 123	600 380 210
Price				

^{*}The max. flow rates are based on a transmission power $T_{1\,cm}$ of 96% of a measured UV-C dose of 400 J/m² after about 8000 hours. ABOX® is a trademarked product name of UMEX GmbH, Kirchheim



Service parts for DOSALux UV desinfection units

Genuine DOSALux service parts must be used to ensure and maintain UV disinfection performance.

DOSALux standard- and high-performance UV lamps



General information

- Low pressure lamp with main emission range 253.7 nm
- With special glass to prevent the buildup of ozone
- The UV lamps have a special long-life internal coating for a very long service life and low decay in radiation intensity

Standard - UV - lamp type DOSALux UVL

- Lifetime approx. 8000 hours
- Service life approx. 1 year
- Average radiation decay: approx. 20% after 5000 h
- Optimum temperature range: 10° 30°C

Order code

DOSALux L	DOSALux Lamps UVL				
	Power consumption Watt	Packaging unit Number of pieces			
	12	4			
	16	4			
	30	4			
	40	4			
	80	4			
	150	4			

UVL	30	(example order)	
Your selecti	on		
UVL			



DOSALux medium pressure and high performance UV lamps



General information

- Low pressure lamp with main emission range 253.7 nm
- With special glass to prevent the buildup of ozone
- The UV lamps have a special long-life internal coating for a very long service life and low decay in radiation intensity

Medium pressure - UV - lamp type DOSALux UVL

- Lifetime approx. 4,500 hours
- service life approx. 1/2 year

Order code

DOSALux Lo	amps UVLM		
	Power consumption Watt	Packaging unit Number of pieces	
	1000	1	
	2000	1	
	2500	1	
	3500	1	

UVLM	2000	(example order)	
Your selecti	on		
UVLM			



DOSALux high performance UV lamps for ABOX® C



General information

- Special lamps for UV disinfection units with DVGW or Ö-Norm certificate
- Low pressure lamp with main emission range 253.7 nm
- With special glass to prevent the buildup of ozone
- The UV lamps have a special long-life internal coating for a very long service life and low decay in the radiation intensity
- Lifetime approx. 9000 hours
- Average radiation decay: approx. 35% after 8,000 h
- Optimum temperature range 10 40°C

Order code

UV units ABOX®	UV lamps
C 60	C 60
C 200	C 200
C 600	C 600

ABOX® is a trademarked product name of UMEX GmbH, Kirchheim



DOSALux quartz protection tubes QSR



General information

- Quartz protection tubes made of very high quality material, suitable for DOSALux – UV disinfection units
- The tubes are half round sealed on one side and edge-fused
- Manufactured to precise dimensions with small tolerances:
 - Diameter: +/- 0.3 mm (over the entire length of the tube)
 - Wall thickness: +/- 0.1 mm - Length: +/- 1 mm
- Pressure resistance up to 10 bar at 55°C

Head flange and O-rings (as shown in the picture) are not included and must be ordered separately if required!

Order code

DOSALux quartz protection tube QSR		
For DOSALux Lamps UVL	Packaging unit	
Watt	Number of pieces	
12	4	
16	4	
30	4	
40/80	4	
150	4	
10/20	1	
25	1	
35/50/70/105	1	
140	1	

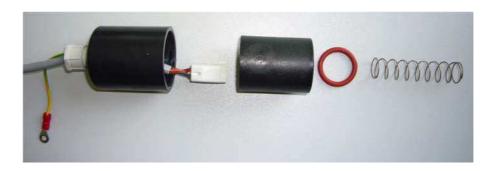
QSR	30	(example order)	
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Your selection

QSR		



Spare parts for DOSALux UV reactors



Order code

DOSALux unit	Protection cap	Protection cap with lead	Plug	Head flange	O-ring	Spring
ALB		wiiii ledd				
LCD	1					
LCDP		Protection cap	4 pin plug for	Headpiece in		
RLCD	Protection cap	in plastic for	UV lamps UVL	plastic for	O-ring for	Spring for
RLCDP	for UV lamps	UV lamps with 4 pin plug and	12, 16, 30, 40,	quartz tube	quartz tube	UV lamps
R80	Plastic	1 m lead	80 and 150	GSR	QSR	AISI 304
RP80		Timoda				
R200						
RP200						

UV sensor for DOSALux UV desinfection units



Order code

for DOSALux:		
LCDP, RLCDP, RP		
RP (DVGW)		
SMP		
ABOX® C		



DOSAactive electrolysis system Series D

The modern systems use salt, water and electricity for an on-site production of fresh, highly active chlorine for an effective disinfection of water.



Applying the electrolysis principle with open cell construction, a common salt solution is used to produce a stock of sodium hypochlorite solution on site that is stable when stored. All functional components, like control, brine pump, tubular cell, water distribution valve and hydrogen separator are mounted on a wall mounting plate made of polyethylene. The cover (white) for the wall mounting plate is provided with a tucked-in closure and can be removed with a single movement. The salt saturation tank with built-in water softener and the product tank are set up separately. Extra-large tanks can be used on request. The operating mode is visualized via an LED display on the control unit. The regeneration intervals of the integrated water softening plant vary, depending on the hardness of the used fill-up water. Installation only indoors, or outdoors with housing. A spate technical room is not required. The used operating resources (salt, electricity, water) are safe.



Recommendations for use

DOSAactive Serie D			60	90	200
Drinking-water disinfection	Drinking-water supply municipal (TVO, §11UBA)		•	•	•
Diriking-water distrilection	Drinking water supply on ships or the like (TVO, § 11UBA)	• •	•	•	
	Beverage industry	•	•	•	•
	Circulation water	•	•	•	•
Water treatment	Sewage	•	•	•	•
water treatment	Aquaria, fish farming	•	•	•	•
	Livestock breeding	•	•	•	•
	miscellaneous	•	•	•	•

Technical data:

DOSAactive Serie D		30	60	90	200	
	1	30			200	
Supply voltage	V/Hz	230 V / 50 Hz.				
Energy demand	kW/h operation	approx. 0,135	approx. 0,27	approx. 0,405	approx. 0,90	
Chlorine production	g /chlorine/h	approx. 30	approx. 60	approx. 90	approx. 200	
ø max. daily output	g/day	approx. 660 / 720	approx. 1320 / 1440	approx.1980 / 2160	approx. 4400 / 4800	
Chlorine concentration	g /chlorine/l	approx. 5- 6	approx. 5 – 6	approx. 5 – 6	approx. 5 – 6	
Water consumption	l/h	approx. 6	approx. 12	approx. 18	approx. 40	
Salt consumption	g/h	approx. 108	approx. 216	approx. 324	approx. 720	
Operating weight	kg	approx. 118	approx. 118	approx. 118	approx. 45	
Operating mode kg		approx. 250	approx. 250	approx. 250	approx. 475	
Flow control monitor		yes				
Monitoring of backflow in hydrogen line		yes				
Brine tank		integrated				
Refill control in softener		yes				
Operating mode		stand-alone				
Product tank			integ	rated		
Tanque de salmuera		integrated				
Required space	mm (HxBxT)	1212 x 772 x 195				
min./max. Room temperature	°C	10 – 40				
Ventilation/deaeration of installation room		necessary				
Process water inlet temperature	°C	max. 25				
Closed hydrogen dis- charge to the outside		yes, continuously rising				



Order Code

DOSAactive Serie D				
		Chlorine production		
	D-30	g/Cl/h		
	D-60	g/Cl/h		
	D-90	g/Cl/h		
	D-200	g/Cl/h		
DOSAactive	D-60	(example order)		
Valuranlantinu				

Your selection:

DOSAactive	D-60				
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General Terms and Conditions of Delivery

Valid: October 2006

I. Scope of application

- 1. The present terms and conditions of delivery shall apply exclusively; deviating conditions or conditions contrary of the customer shall only apply provided the supplier approved of this in writing.
- 2. The present General Terms and Conditions of Delivery shall also apply to subsequent orders and to replacement parts deliveries without necessitating repeated pointing out of this fact.
- 3. Supplements and representations as well as modifications or amendments to a contract concluded in writing or by fax/e-mail must be in writ-

II. Offer and order confirmation

- 1. Offers shall only be binding provided a time limit for acceptance is stated in the offer. To be legally binding, offers shall require the written confirmation of the supplier.
- 2. The supplier reserves any titles to and copyrights in figures, drawings, calculations, and other offer documentation and similar information of physical and non-physical type – also in electronic form; these may only be disclosed to third parties on the supplier's written approval and shall be immediately returned to the supplier on request if no order is awarded to the supplier.

III. Scope of deliveries and services

- 1. The deliveries and services are determined based on the mutual written declarations. If no such declarations exist, the written order confirmation of the supplier shall be decisive. For mere sales contracts, the agreed upon delivery provisions shall be interpreted according to the INCOTERMS valid at the conclusion of the contract.
- 2. Data in brochures catalogues or general technical documentation shall only be binding if reference is made to them in writing.
- 3. The costs for an agreed mounting and assembly, including all and any required ancillary costs such as travel expenses or costs for the transport of tools or personal luggage shall be remunerated separately by the customer, if not otherwise agreed upon.
- 4. If software is part of the delivery scope, the customer shall be granted a non-exclusive right of use in the software. The customer may copy or edit the software only in the legally permissible scope.
- 5. Partial deliveries shall be permissible, provided it is reasonable for the customer, considering the interests of both the supplier and the customer. 6. In case of deliveries abroad, the supplier's obligation shall be under the proviso that any necessary export licenses are granted.

IV. Prices and terms of payment

- All prices shall be in EURO unless otherwise stated. They shall apply to mere delivery transactions "ex works" (EXW), exclusive of packaging.
 The prices do not include any turnover tax. This tax is itemized separately
- in the invoice in the statutory amount applicable at the date of invoicing.
- 3. The deduction of discounts shall require a special agreement in writing.
- 4. If not otherwise shown in the order confirmation, the sales price shall be
- due for payment 30 days from invoice date without any deduction.

 5. If the customer does not comply with the date for payment, the customer shall pay default interest in the amount of 8 percentage points above the base interest rate pursuant to §247 German Civil Code from the due date. Payment of further damages remains reserved.
- 6. If not otherwise agreed upon, the delivery of goods for deliveries abroad shall be under the proviso that an irrevocable commercial letter of credit is issued by the customer in favour of the supplier, and confirmed by a German banking institution.
- 7. In case of delayed payment, the supplier may suspend the performance of his own obligations until total payment was received, giving written no-
- 8. The customer may only set off claims or assert a right of retention, provided these are undisputed or have become non-appealable.

V. Time-limits for deliveries or services

- 1. With regard to time-limits, the mutual written declarations or, in the absence of such declarations, the written order confirmation of the supplier shall be decisive. The time-limit shall be deemed observed, provided all and any documentation to be provided by the customer are received in time, and all and any required permits, releases, in particular plans, are provided, and the agreed upon terms of payment and other obligations are met by the customer. If these prerequisites are not met in time, the time-limit shall be prolonged reasonably; this shall not apply if the supplier is responsible for the delay
- 2. If non-observance of the time-limits is the result of force majeur, e.g. mobilization, war, riot or similar events, e.g. strike or lock-out, the agreed upon time-limits shall be prolonged reasonably.
- 3. If mounting and assembly are not part of the agreed upon services, the time-limit shall be deemed observed if the goods ready for operation were shipped or collected within the time-limit. Should the delivery be delayed for reasons for which the customer is responsible, the time-limit shall be deemed observed upon notification of readiness for shipment.

- 4. If the supplier is responsible for the non-observance of the time-limit, the customer, provided the customer suffered an actual loss, may request compensation for delay for each full week of delay of a maximum of 0.5%, however, not exceeding 5% of the price for the part of the delivery which could not be taken into relevant operation because of the delay. Claims for compensation of the customer exceeding the limits stipulated in item 5.4 shall be excluded in all cases of delayed delivery or service, also after expiry of any grace period set to the supplier, This shall not apply to the extent mandatory liability exists in cases of intent, gross negligence or personal injury; a shift of the burden of proof to the disadvantage of the customer is not given in this case.
- 5. The customer's right to withdraw after ineffectual expiry of a grace period for the supplier shall remain unaffected. The grace period, however, must be reasonable and amount to at least four weeks.
- 6. If shipment or delivery is delayed for more than one month after notice of readiness for shipment on the customer's request, warehouse charges in the amount of 0.5% of the price of the delivery goods, however, not exceeding a total of 5%, may be charged to the customer for each month started. The parties to the contract shall remain free to furnish proof of higher or lower warehouse charges.

VI. Passage of utility and risk; insurance; packaging

- 1. The risk of deliveries and services rendered by the supplier shall pass to the customer as follows, even in case of deliveries freight paid.
 - For deliveries without mounting or assembly, even in case of partial deliveries, if these have been shipped or collected. Shipments shall be insured by the supplier against the usual transport risks upon wish and at the expense of the customer. If such insurance exists, the supplier shall be immediately notified about any damages to goods in transit.
 - For deliveries with mounting or assembly on the day of acceptance in the customer's operations or, if agreed upon, after perfect test operation.
- 2. If the shipment, delivery, start performance of mounting or assembly acceptance in the customer's operations or test operation is/are delayed for reasons attributable to the customer or if the customer delays acceptance for other reasons, the risk shall pass to the customer.
- 3. The shipment is in principle made in standard packaging of the supplier. The latter shall be entitled to choose special types of packaging deemed necessary in the supplier's discretion. The costs of these packagings shall be borne by the customer.

VII. Mounting and assembly

The mounting, assembly and installation of the equipment and devices of the supplier may only be performed by specialists, observing the supplier's guidelines and the applicable technical standards.

If mounting and/or assembly are performed by the supplier, the following provisions shall apply, if not otherwise agreed upon in writing:

- 1. The customer shall assume and provide in time at the customer's expense:
 - All earthworks, construction work and other different ancillary work, including the required specialists and auxiliary staff, materials and tools.
 - The commodities and materials such as scaffolds, cranes and b. elevators and other devices, fuels, lubricants, and chemicals required for assembly and commissioning.
 - Energy and water at the site of use, including connections, heating, and illumination,
 - Sufficiently large, suitable, dry and lockable rooms at the assembly site for storing machine parts, fixings, materials, and tools etc., and suitable working and recreation rooms for the assembly staff, including appropriate sanitary installations. For the protection of the supplier's property and the assembly staff, the customer shall also take the measures he normally would take to protect his own property.
 - Protective clothing and protective devices which are necessary because of special circumstances at the assembly site.
- 2. Prior to the start of the assembly work, the customer shall unsolicitedly provide the required information about the position of subsurface energy, gas, water conduits or similar installations as well as the required data on statics.
- 3. Prior to the start of mounting or assembly, the additions and objects required to start the work must be at the mounting or assembly site and all preparations prior to start of the installation must be advanced such that the mounting or assembly can be started as agreed upon and can be performed without any interruptions. Access routes and the mounting or assembly site must be flattened and clear of any objects.
- 4. Should mounting, assembly or commissioning be delayed for reasons beyond the control of the supplier, the customer shall bear the costs for waiting time and additionally required travels of the supplier or the assembly staff in an adequate amount.
- 5. If a plant cannot be installed immediately after delivery, the customer shall be responsible for a proper storage according to the supplier's guide-
- 6. the customer shall provide the supplier with weekly information on the duration of the working hours of the assembly staff and shall immediately confirm the completion of mounting, assembly or commissioning.



- 7. The commission may only be performed by technicians acknowledged by the supplier and according to the supplier's instruction. The technicians shall be entitled to refuse commissioning of the plant if the operating conditions to be provided by the customer do not guarantee a safe operation of the plant. The customer shall bear the costs of any delay in commissioning incurred to the supplier.
- 8. Should the supplier request acceptance of the deliveries and services after completion, the customer shall be obliged to do so within two weeks. Otherwise, the acceptance shall be deemed made. The acceptance shall be deemed made, too, if the delivery foods and services also after completion of an agreed test phase, if any have been taken in use.

VIII. Warranty

- 1. Should goods delivered or services rendered by the supplier prove to be defective because they do not possess the agreed quality or because they are not suitable for the agreed or usual use, the supplier shall in its discretion either remedy the parts or services concerned or deliver or render them again at no cost within the limitation period, provided the cause of the defect already existed at the time of risk passing.
- 2. Claims for material defects become statute barred after 12 months. The time-limit shall start with passing of the risk (item 6). The above provisions shall not apply to the extent the law mandatorily prescribes longer time-limits according to §§438(1) no. 2 German Civil Code (goods for edifices), §479(1) German Civil Code (right of recourse); and §634a German Civil Code (Structural defects). The warranty period may be prolonged up to 60 months in suitable cases, provided the customer concludes a maintenance contract for the corresponding period.
- 3. The customer shall immediately give notice of defects to the supplier.
 4. In the event of notices of defects, payments of the customer may be retained in the volume which shows a reasonable ratio to the material defects incurred. The customer may retain payments only if a notice of defect is given whose justification is beyond doubt. If the notice of defect is given wrongfully, the supplier shall be entitled to request from the customer compensation for the expenses incurred to the supplier.
- At first, the supplier shall always be given the opportunity to post-perform within a reasonable time-limit. The customer shall grand the supplier the time and opportunity required to do so. Should the customer refuse this, the supplier shall be exempted from the liability for defects.
- 6. If the post-performance fails, the customer notwithstanding possible claims for damages- may withdraw from the contract of reduce the compensation. The customer may not claim compensation for futile expenses. 7. Claims for defects do not exist in case of minor deviations from the agreed or assumed quality, minor impairment of usability, natural wear or damages incurred after passing of the risk because of incorrect or negligible handling, excessive use, unsuitable operating material, faulty construction work, unsuitable subsoil or because of special external influences which are not established in the contract as well as in case of non-reproducible software errors. If the customer or third parties perform improper modifications or repair work, no claims for defects will exits for these and the resulting consequences.
- 8. The supplier shall not bear the additional expenditure, in particular transport, travelling, labour and material costs, which result from the fact that the subject matter for the delivery was later transported to a different location than the customer's branch or the original place of destination, except the transport corresponds to its proper use
- except the transport corresponds to its proper use.

 9. In all cases, the customer shall be obliged to take any possible and reasonable steps to keep the expense for the purpose of port-performance as small as possible. The supplier shall participate in the costs for a recall campaign only if this is necessary based on the factual and legal situation. The customer shall be obliged to either return defective products or keep them ready for inspection and rests, in the supplier's discretion.
- 10. Claims for recourse of the customer against the supplier shall only exist to the extent the customer did not conclude any agreements with the customer's purchaser which exceed the statutory claims for defects. In addition, item 8.8 shall apply correspondingly to the scope of the right for recourse of the customer against the supplier.
- 11. Furthermore, item 11 (other claims for damages) also applies to claims for damages. More extensive or other claims than stipulated in the present item 8 of the customer against the supplier and its persons employed in performing the obligations because of a material defect shall be excluded.

IX. Industrial property rights and copyright; defects of title

- 1. If not otherwise agreed upon, the supplier shall be obliged to render the delivery free of any industrial property rights and copyrights of third parties (hereinafter called: property rights) solely in the country of the place of delivery. To the extent a third party makes justifies claims against the customer because of infringement of property rights by deliveries rendered by the supplier and used according to contract, the supplier shall be liable to the customer within the time-limit stipulated in item 8.2 as follows:
- the customer within the time-limit stipulated in item 8.2 as follows:

 a. The supplier shall at the supplier's expense and in the supplier's discretion either obtain a right of use for the deliveries concerned, modify them such that the property right is not infringed or exchange them. Should the supplier not be able to do so under reasonable conditions, the customer shall be entitled to statutory cancellation of reduction right. The customer may not claim compensation for futile expenses.
 - The supplier's obligation to pay damages shall be subject to item11.

- c. The above-mentioned obligations of the supplier shall only be given provided the customer immediately informs the supplier in writing about claims asserted by third parties, refuses to acknowledge an infringement, and all and any measures of protection and settlement proceedings remain reserced to the supplier. Should the customer discontinue the use of the delivery goods for the purpose of reducing the damage or for other reasons, the customer shall be obliged to inform the third party about the fact that the discontinuance of use does not represent an acknowledgement of the property rights infringement.
- 2. Claims of the customer shall be excluded the customer is responsible for the property rights infringement.
- 3. Claims of the customer shall furthermore be excluded to the extent the property rights infringement was caused by special standards stipulated by the customer, by use not foreseeable by the supplier or by the fact that the delivery goods were modified by the customer or used in conjunction with products not delivered by the supplier.
- products not delivered by the supplier.

 4. In the event of property rights infringements, the claims of the customer stipulated in item 9.1 a) shall apply, in addition the provisions in item 8.4, item 8.5, and item 8.10 shall apply correspondingly. In case of other defects of title, the provisions of item 8 shall apply correspondingly.
- More extensive or other claims than stipulated in the present item 9 of the customer against the supplier and its persons employed in performing the obligations because of a defect of title shall be excluded.

X. Impossibility; adaptation of contract

- 1. To the extent the delivery is not possible, the customer shall be entitled to claim damages, except the impossibility is attributable to the supplier. The customer's claims for damages, however, shall be limited to 10% of the part of the delivery which cannot be taken into relevant operation because of the impossibility. This limitation shall not apply to the extent mandatory liability exists in cases of intent, gross negligence or personal injury; a shift of the burden of proof to the disadvantage of the customer is not given in this case. The customer's right to withdraw from the contract shall remain unaffected.
- 2. In case of temporary impossibility, item 5 (time-limits) shall apply.

 3. Should unforeseeable events in the sense of item 5.2 significantly change the economic meaning or the content of the delivery or have a significant effect on the supplier's operations, the contract shall be adapted in good faith. To the extent this is not economically reasonable, the supplier shall be entitled to withdraw from the contract. If the supplier intends to assert this right to withdraw, the supplier after having obtained knowledge about the scope of the event, shall immediately inform the customer to this effect. This shall also apply if a prolongation of the delivery period was agreed upon with the customer at first.

XI. Other claims for damages

- Claims of the customer for damages and indemnity of expenses because of infringement of main or ancillary obligations from the contractual obligation, from trot or other legal grounds shall be excluded.
- 2. This exclusion shall not apply to the extent mandatory liability exists, e.g. pursuant to the German Product Liability Act, in cases of intent, gross negligence, for personal injury, because of the assumption of a guaranty for the presence of a property, or infringement of material contractual obligations. The damages for the infringement of material contractual obligations shall, however, be limited to the contract-typical, foreseeable damage, provided no intent or gross negligence exists or liability exists for personal injury or because of the assumption of a guaranty for the presence of a property. A shift of the burden of proof to the disadvantage of the customer is not related with the above provisions.
- 3. If mandatory law does not stipulate longer limitation periods, all and any claims for damages shall become statue-barred within the time-limits stated in item 8.2.

XII. Warranty and product description

- 1. Warranties shall only be effective if made in writing.
- 2. Data described in catalogues, tender documentation and other printed matter as well as general advertising statements do not represent an offer for the conclusion of a warranty agreement.

XIII. Reservation of title

- 1. The supplier reserves the title in the delivery goods (reserve goods) until the customer has made the complete payment due from the business relationship. The reservation of title shall also include the acknowledged balance, to the extent the supplier enters the claims against the customer in current account (current account reserve).
- 2. If the supplier accepts return of the delivery goods, this shall mean a withdrawal from the contract. Upon return of the goods purchased, the supplier shall be entitled to realize these goods; the realization fees. In the event the delivery goods are attached, the supplier shall be entitled to withdraw from the contract without setting a time-limit. In case of attachment or other interventions by third parties, the customer shall immediately inform the supplier in writing for the supplier to be able to file action pursuant to §771 German Code of Civil Procedure. To the extent third parties are not able to reimburse the judicial and extra judicial expenses of an action pursuant to §771 German Code of Civil Procedure to the supplier, the customer shall be liable for the loss incurred by the supplier.
- 3. The customer shall be entitled to resell the delivery goods in the proper course of business; however, the customer already now assigns to the sup-



plier. All and any claims in the amount of the final invoice amount, including value added tax, which are due to him from resale against his purchaser or third parties, independent of the fact whether the delivery goods were resold without or after processing. The customer shall be entitled to collect this claim also after its assignment. The supplier's power to collect the claim himself remains unaffected; the supplier may request the customer to disclose the assigned claims and their debtors, to provide the information required for collection, to provide the relevant documentation and to inform the debtor (third party) about the assignment.

4. The processing and transformation of the delivery goods by the customer shall always be performed for the supplier. If the delivery goods are processed together with other objects not belonging to the supplier, the supplier shall obtain co-ownership in the new object in the proportion of the value of the delivery goods to the other processed objects at the time of processing. Otherwise, the same provisions as for reserve goods shall apply to the matter created by processing. The customer shall also assign to the supplier the claims for securing the supplier's claims which are due to the customer against a third party by joining the delivery goods with a real property.

5. If the delivery goods are mixed in-separately with other objects not belonging to the supplier, the supplier shall obtain co-ownership in the new object in the proportion of the value of the delivery goods to the other mixed objects at the time of mixing. If the mixing is done such that the matter of the customer is to be deemed a main component, the parties agree that the customer shall assign to the supplier proportional co-ownership. The customer shall keep the sole property or co-property for the supplier. The customer shall insure it in the usual scope against usual risks such as e.g. fire, theft, water, and similar. The customer shall already now assign to the supplier the customer's claims for compensation which are due to him from damages of the above-mentioned type against insurers or other third parties, in the amount of the invoice value of the goods.

6. If the realizable value of the securities due to the supplier exceeds the supplier's total claims by more than 10%, the supplier shall be obliged to release in the supplier's discretion securities on request of the customer or a third party affected by the excessive security.

XIV. Place of jurisdiction and applicable law

- 1. The place of jurisdiction for all and any disputes arising out of the present contract shall be the supplier's headquarters, provided the customer is a merchant: The supplier, however, shall be entitled to file action at the customer's headquarters.
- 2. German law shall apply to the contractual relationships. The UN Convention on the International Sale of Goods (CISG) shall be excluded.

XV. Severability

Should any individual provisions of the present contract be legally ineffective, the validity of the remaining provisions shall in no way be affected. This shall not apply if abiding by the contract would constitute an unreasonable hardship for the other party to the contract.

DOSATRONIC GmbH

DOSATRONIC MANAGEMENT IN WATER



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