2. Measuring, control and dosing systems

Legal notice

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Rights

Note

We are committed to continuously improving our products. The information provided in
these Operating Instructions may occasionally be at variance with the product itself if
technological are made or in order to comply with safety related requirements.

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4. Measuring, control and dosing systems

2.1. DOSA*Sys*

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DOSASys **Measuring, control and dosing systems**

2.1.1.	DOSA*Pool* Measurement, control and dosing systems

Measurement, control and dosing systems for measuring the swimming pool water as well as the resulting dosage of acid/alkali and liquid disinfectant.

Product description:

- We design the right dosing system for your swimming pool precisely in accordance with your requirements.
- We devise solutions using our own standard components that leave nothing to be desired when it comes to quality and safety.
- The compact units are delivered ready for connection and mounted (on a mounting plate).
- Accurate diaphragm dosing pumps allow for precise dosing of the swimming pool chemicals
- Other features (depending on the design):
  - Standby input (or flow rate monitoring)
  - pH priority function
  - Temperature compensation
  - etc.

Areas of application:

- Swimming pools, private pools etc.

Scope of supply:

- DOSA*Pool* pre-assembled dosing unit consisting of (depending on the model):
  - Controller, diaphragm dosing pump(s), mounting fitting(s) for sensors (pH, chlorine, redox etc.) and amperometric sensors, buffer solutions, prefilters, 2 m intake hose, 2 m discharge hose, 2 m connecting hoses, injection valve, foot valve with low-level indicator, tapping sleeves, mounting plate

Ordering data:

Type:	Controller: channels	Pump(s): number	Hose connection: y/n	Injection and foot valve: y/n	Item number:
DOSA*Pool* 260	pH, chlorine				
DOSA*Pool* 260	pH, redox	2	y	y	on request
DOSA*Pool* 360	pH, redox, chlorine				

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14.02.2017

DOSA*Sys* Measuring, control and dosing systems   389

2.1.2.	DOSA*Pool* **pH-Rx** Measurement, control and dosing systems

Measurement, control and dosing systems for measuring the swimming pool water quality. Dosing of acids and bases as well as liquid disinfectant.

Product description:

- Simple all-in-one system for swimming pool water disinfection:
  - Measurement: pH and redox value
  - Control: Determination of the necessary corrective action
  - Dosing: The substances determined are added to the swimming pool water using the robust peristaltic pumps
  - Disinfection takes place automatically
- Proportional dosing
- Warning if the pH of the water is too high or too low
- Warning if the redox value is too low
- Filling level indication using a low-level indicator for the storage tank
- Display of the parameters on the display
- Configuration with control buttons on the pumps

Areas of application:

- Private indoor and outdoor swimming pools.

Scope of supply:

- **DOSA*Pool* pH-Rx** all of the components are pre-installed on a panel for wall mounting:
  - Two peristaltic pumps with an integrated controller
  - Pre-filter incl. filter cartridge
  - Fitting to hold the necessary sensors
  - pH electrode, redox electrode, buffer solutions
  - Connection accessories: suction and injection valves, hoses, other small parts
  - Cabling

Ordering data:

Type:	Controller: channels	Pump(s): number	Hose connection: mm	Flow max.: l/h	Pressure max.: bar	Item number:
DOSA*Pool* pH-RX	pH, redox	2	4 x 6	3	1.5	5788015

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14.02.2017

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2.1.3.	**DOSA***Sys* **Zero-Clxxx**

System for continuous monitoring for the absence of chlorine and for continuous detection of the lowest chlorine concentrations.

Product description:

- Continuous measurement of lowest chlorine concentrations to verify the absence of chlorine
- Repeatability 3 ppb, measuring conditions: 20 ppb, pH 7.2, temperature 25 °C
- Measuring panel for amperometric sensor with automatic disinfection function (cleaning) for the integrated 0-chlorine measuring cell
- The regulated disinfection function at the measuring cell ensures reliable zero-chlorin measurement, the measuring cell is protected against unwanted deposits (clogging) by disinfection directly at the membrane
- Operating principle of the controller:
  - Control (PID control), Displays, 5.5" TFT colour touch screen
- Flow cell:
  - Body material: Polished PMMA
  - Flow rate indicator on top, from flow rates of approx. 15 l/h. Material: natural PEEK
  - Sampling, knurled PVC needle valve (on the right below the drain)
  - Hose connections, straight ¼" screw connection for 6/8" hose with PA O-ring, (inlet, outlet)
- Flow rate monitoring with inductive proximity switch
- Solenoid valve with 2/2-way screw-in solenoid valve G ¼", 0 – 15 bar, NO
- max. permissible operating pressure at the measuring cell: 1 bar, no pressure surges and/or fluctuations
- Operating temperature
  - Sample water temperature: 0 to +45 °C, no ice crystals in the sample water
  - Ambient temperature: 0 to +55 °C
- Dimensions: 600 mm x 650 mm x 8 mm (130 mm incl. mounting board), W x H x D
- Power supply (power supply unit) 100 – 240 V AC, 50/60 Hz
- EMC testing in accordance with DIN EN 61326-1, 61326-2-3
- 63000 RoHS compliant
- Transportation: +5 °C to +50 °C, handle with care and protect against shocks during transportation
- Storage: store in a clean and dry environment at between +5 °C and +40 °C. Please also observe the additional environmental requirements of the integral parts (sensor, electrolytic cell, controller)
- Hose connection: 6 x 8 mm

Areas of application:

- Drinking water, waste water, reverse osmosis etc.

Lieferumfang:

- **DOSA***Sys* **Zero-Cl**, for zero chlorine measurement (complete system): Measuring panel with mounting board, controller, flow assembly, 2/2-way screw-in solenoid valve (G ¼", 0 – 15 bar, NO), zero-chlorine measuring cell, electrolytic cell, inductive proximity switch, system-relevant wiring and hoses, (in addition, the 0-chlorine measuring cell **DOSASens Cp4.0H-M4c**, see second line under ordering, is required).

Ordering data:

Type:					Item No:
DOSA*Sys* **Zero-Cl**	Design see above				5788280
Type:	Measuring range:	Resolution:	Output signal:	Power supply:	
DOSA*Sens* **Cp4.0H-M4c**	0,005 ... 2,000	0,001	Modbus RTU	9 ... 30 V DC	3226306

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