DOSA*Sens* Peracetic acid sensor **P9.3**

Sensor for the measurement of peracetic acid – surfactants and lead acids are tolerated. Peracetic acid sensor with membrane-covered, amperometric 2-electrode system. The membrane system is mechanically robust. The membrane system is largely tenside resistant.

Produktbeschreibung:

- Measurand(s): Peracetic acid
- Calibration of the controller: on the measuring device, using analytical determination
- Interferences:
  - ClO_2 increases the measured value
  - H_2O_2 very low influence on the measuring value
  - O_3 increases the measured value strongly
- pH-range: 1 … 8
- Pressure range:
  - Operation without retaining ring: 0 … 0,5 bar, no preassure impulses and/or vibrations
  - Operation with retaining ring: 0 … 1,0 bar, no preassure impulses and/or vibrations
- Temperature range: 0 … 60 °C
- Sensor with temperature compensation
- Response time: T_{90} ca. 3,5 min. at +10 °C
  T_{90} ca. 45 sec. at +50 °C
- Absence of the disinfectant: max. 24 h
- Flow rate: ca. 15 … 30 l/h, small flow rate dependence is given
- Sensor length: Standard 190 mm, up to 220 mm (in mA-Version)
- Conexion: 5-pole M12 screwed plug (mV-, mA-, Modbus RTU-Version), 2-pole terminals(mA-Version)
- Material: PEEK, stainless steel 1.4571

Einsatzgebiete:

- Fresh water, hot water systems, all types of water treatment (e.g. CIP-plant, rinser)
- Lead acids: up to 1% sulfur, saltpetre and phosphoric acid have no influence on the measuring results.
- Surfactants are tolerated.

Scope of supply:

- **DOSA*Sens* P9.3** Sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Iten number:
P9.3**H-M12**	0...200	0,1	0...-2000 mV 1 k Ω	± 5 - ± 15 VDC 10 mA	3526200
P9.3**N-M12**	5...2000	1			3526201
P9.3**L-M12**	0,005...2 % (20000 ppm)	0,001 % (10 ppm)			3526202
P9.3**H-An-M12**	0...200	0,1	0...-2000 mV (max. -2,5 V) 1 k Ω	9-30 VDC ca. 20 - 56 mA	3526210
P9.3**N-An-M12**	5...2000	1			3526211
P9.3**L-An-M12**	0,005...2 % (20000 ppm)	0,001 % (10 ppm)			3526212
P9.3**H-M0c**	0...200	0,1	ModBus RTU		3526220
P9.3**N-M0c**	5...2000	1			3526221
P9.3**L-M0c**	0,005...2 % (20000 ppm)	0,001 % (10 ppm)			3526222

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Ordering data:

Type:	Meassuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
P9.3**MA-200**	0...200	0,1	4 ... 20 mA	12 ... 30 VDC R_L = 50 Ω (12 V) ... R_L 900 Ω (30 V)	3526230
P9.3**MA-2000**	5...2000	1			3526231
P9.3**MA-2%**	0,005...2 % (20000 ppm)	0,001 % (10 ppm)			3526232
P9.3**MA-200-M12**	0...200	0,1			3526240
P9.3**MA-2000-M12**	5...2000	1			3526241
P9.3**MA-2%-M12**	0,005...2 % (20000 ppm)	0,001 % (10 ppm)			3526242

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
P9.3**H-M12**	-10 mV/ppm	5-pin M12 screwed plug	Connection only to a controller with galvanically separated power supply
P9.3**N-M12**	-1 mV/ppm		
P9.3**L-M12**	-0,1 mV/ppm (-0,1 mV/ppm)		
P9.3**H-An-M12**	-10 mV/ppm		
P9.3**N-An-M12**	-1 mV/ppm		-
P9.3**L-An-M12**	-0,1 mV/ppm (-0,1 mV/ppm)		
P9.3**H-M0c**	Modbus RTU		
P9.3**N-M0c**			
P9.3**L-M0c**			
P9.3**MA-200**	0,08 mA/ppm	2 pole terminal-polige Klemme	Connection only to a controller with galvanically separated power supply.
P9.3**MA-2000**	0,008 mA/ppm		
P9.3**MA-2%**	8 mA/% (0,0008 mA/ppm)		
P9.3**MA-200-M12**	0,08 mA/ppm	5-pin M12 screwed plug	
P9.3**MA-2000-M12**	0,008 mA/ppm		
P9.3**MA-2%-M12**	8 mA/% (0,0008 mA/ppm)		

Spare parts:

Spare parts:	for sensors type:	Item number
Membrane cap **M9.3N**	all P9.Types	9026029
Electrolyte **EPS9H/W**	P9.3 not for P9.3L and P9.3MA-2%	9026071
Electrolyte **EPS9L/W**	P9.3L and P9.3MA-2%	9026072
Emery **S2**	All P.3 Sensors	9026104
O-Ring **20 x 1,5 Silicone**	All P.3 Sensors	9026153

Zubehör:

Typ:	for sensors type:	Item number
Sensor simulator pH, Redox, Cl	alle Sensoren mit mV-Signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 … 20 mA, current sensor	alle Sensoren mit mA-Signal	90249000
mV Simulator and **mA Tester**	alle Sensoren mit mV-Signal oder mA-Signal	21131105

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