DOSA*Sens* Peracetic acid sensor **P10**

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.

Product description:

- Measurand(s): Peracetic acid
- Calibration of the controller:
  - DIN 38409-15 “Determination of hydrogen peroxide”
  - ISO/DIS 7157 “Determination of hydrogen peroxide – titrimetric method”
- Interferences:
  - ClO_2 is registered with factor 1 of its measuring value
  - H_2O_2 does not interfere
  - O_3 is registered with factor 2500 of its measuring value
- pH range: 1 – 6
- Pressure range:
  - Operation without circlip: 0 – 0.5 bar, no pressure surges and/or vibrations
  - Operation with circlip: 0 – 1.0 bar, no pressure surges and/or vibrations
- Temperature range: 0 – 45 °C
- Sensor with automatic temperature compensation
- Response time: T_{90} approx. 1.5 – 5 min (depending on type and temperature)
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 45 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: standard 4-pole plug, M12 male, 2-pole terminal (for mA-version) or Modbus RTU with M12 male
- Material: PVC-U, stainless steel 1.4571

Areas of application:

- Fresh water, 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* P10** sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
P10**H-M12**	0 – 200	0.1	0 to -2000 mV 1 kΩ	±5 to ±15 VDC, 10 mA	3626380
P10**N-M12**	0 – 2000	1			3626381
P10**L-M12**	0 – 2 % (20000 ppm)	0.001 % (10 ppm)			3626382
P10**H-An-M12**	0 – 200	0.1	0 to -2000 mV (max. -2500 mV) 1 kΩ	9 – 30 VDC 20 – 56 mA	3626390
P10**N-An-M12**	0 – 2000	1			3626391
P10**L-An-M12**	0 – 2 % (20000 ppm	0.001 % (10 ppm)			3626392
P10**H-M0c**	0 – 200	0.1	Modbus RTU		3426030
P10**N-M0c**	0 – 2000	1			3426031
P10**L-M0c**	0 – 2 % (20000 ppm)	0.001 % (10 ppm)			3426032

Subject to technical modifications and printing errors. Images may vary slightly from actual product.
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Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
P10**MA-200**	0 – 200	0.1	4 to 20 mA	12 – 30 V DC R_L = 50 Ω (12 V) ... R_L 900 Ω (30 V)	3426054
P10**MA-2000**	0 – 2000	1			3426050
P10**MA-2%**	0 – 2 % (20000 ppm)	0.001 % (10 ppm)			3426051
P10**MA-5%**	0 – 5 % (50000 ppm)	0.01 % (100 ppm)			3426052
P10**MA-200-M12**	0 – 200	0.1			3426064
P10**MA-2000-M12**	0 – 2000	1			3426060
P10**MA-2%-M12**	0 – 2 % (20000 ppm)	0.001 % (10 ppm)			3426061
P10**MA-5%-M12**	0 – 5 % (50000 ppm)	0.01 % (100 ppm)			3426062

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
P10**H-M12**	-10 mV/ppm	5-pole M12 male	Connection only to a controller with galvanically separated power supply.
P10**N-M12**	-1 mV/ppm		
P10**L-M12**	-1000 mV/% (-0,1 mV/ppm)		
P10**H-An-M12**	-10 mV/ppm		-
P10**N-An-M12**	1 mV/ppm		
P10**L-An-M12**	-1000 mV/% (-0.1 mV/ppm)		
P10**H-M0c**	Modbus RTU	M12 male	
P10**N-M0c**			
P10**L-M0c**			
P10**MA-200**	0.08 mA/ppm	2 pole terminal	Connection only to a controller with galvanically separated power supply.
P10**MA-2000**	0.008 mA/ppm		
P10**MA-2%**	8 mA/% (0,0008 mA/ppm)		
P10**MA-5%**	3.2 mA/% (0,00032 mA/ppm)		
P10**MA-200-M12**	0.08 mA/ppm	M12 male	
P10**MA-2000-M12**	0.008 mA/ppm		
P10**MA-2%-M12**	8 mA/% (0,0008 mA/ppm)		
P10**MA-5%-M12**	3.2 mA/% (0,00032 mA/ppm)		

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap **M10.1N+G**	P10**H**, P10**N**, P10**L** (all types), P10**MA-200**, P10**MA-2000**, P10**MA2%**	9026017
Membrane cap **M10.1G+G**	P10**MA5%**	9026015
Electrolyte **EPS9H/W**	P10**H**, P10**N** all types, P10**MA-2000**	9026071
Electrolyte **EPS9L/W**	P10 **L**, all P10**MA-2%**, all P10**MA-5%**	9026072

Accessories:

Type:	for sensor type:	Item number:
Sensor simulator pH, Redox, Cl	all sensors with mV signal	21131100
Sensor simulator SIM11.1n	0 mV, -100 mV, -1000mV	9026205
Sensor simulator 4 – 20 mA, current sensor	all sensors with mA signal	90249000
mV Simulator and **mA Tester**	all sensors with mV signal or mA signal	21131105