

1.1.1 DOSASens Peracetic acid Sensor P10

Sensor for the measurement of peracetic acid – surfactants and lead acids are tolerated.



Product description:

- Measurand(s): Peracetic acid
- Calibration: at the controller, via analytical determination by DPD-method
- Interferences:
 - ClO₂ is registered with factor 1 of its measuring value
 - H₂O₂ does not interfere
 - O₃ is registered with factor 2500 of its measuring value
- pH range: 1 ... 6
- Pressure range: 0 ... 1 bar, no pressure surges and/or fluctuations,
- Temperature range: 0 ... 45 °C
- Sensor with automatic temperature compensation
- Response time: T₉₀ approx. 1.5 – 5 min, depending on type and temperature
- 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; for mA-version 2-pole terminal, M12 male or Modbus RTU with M12 male
- Material: PVC-U, stainless steel 1.4571

Areas of application:

- Fresh water, all types of water treatment
- Lead acids: up to 1% sulfur, saltpetre and phosphoric acid have no influence on the measuring results
- Surfactants are tolerated

Scope of supply:

- **P10:** sensor, membrane cap, electrolyte

Ordering data:

Type: C ₂ H ₄ O ₃ - sensor P10	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
P10H	0 ... 200	0.1	0 ... -2000 mV 1 kΩ	±5 ... ±15 VDC 10 mA	3426000
P10N	0 ... 2000	1			3426001
P10L	0 ... 2 % (20000 ppm)	0.001 % (10 ppm)			3426002
P10H-An	0 ... 200	0.1	0 ... -2000 mV (max. -2500 mV) 1 kΩ	9 ... 30 VDC 20 ... 56 mA	3426010
P10N-An	0 ... 2000	1			3426011
P10L-An	0 ... 2 % (20000 ppm)	0.001 % (10 ppm)			3426013

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Ordering data:

Type: C ₂ H ₄ O ₃ - sensor P10	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
P10H-M0c	0 ... 200	0.1	Modbus RTU	9 ... 30 VDC 20 ... 56 mA	3426030
P10N-M0c	0 ... 2000	1			3426031
P10L-M0c	0 ... 2 % (20000 ppm)	0.001 % (10 ppm)			3426032
P10MA-200	0 ... 200	0.1	4 ... 20 mA	12 ... 30 VDC RL = 50Ω (12V) ... RL 900Ω (30V)	3426054
P10MA-2000	0 ... 2000	1			3426050
P10MA-2%	0 ... 2 % (20000 ppm)	0.001 % (10 ppm)			3426051
P10MA-5%	0 ... 5 % (50000 ppm)	0.01 % (100 ppm)			3426052
P10MA-200-M12	0 ... 200	0.1			3426064
P10MA-2000-M12	0 ... 2000	1			3426060
P10MA-2%-M12	0 ... 2 % (20000 ppm)	0.001 % (10 ppm)			3426061
P10MA-5%-M12	0 ... 5 % (50000 ppm)	0.01 % (100 ppm)			3426062

Additional technical data:

Type: C ₂ H ₄ O ₃ sensor P10 Shaft length: 175 mm	Slope:	Connection:	Special characteristics:
P10H	-10 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
P10N	-1 mV/ppm		
P10L	-1000 mV/% (-0,1 mV/ppm)		
P10H-An	-10 mV/ppm	4-pin plug	
P10N-An	1 mV/ppm		
P10L-An	-1000 mV/% (-0,1 mV/ppm)		
P10H-M0c	Modbus RTU	M12 female	
P10N-M0c	Modbus RTU		
P10L-M0c	Modbus RTU		
P10MA-200	0.08 mA/ppm	2 pole terminal	Connection only to a controller with galvanically separated power supply.
P10MA-2000	0.008 mA/ppm		
P10MA-2%	8 mA/% (0,0008 mA/ppm)		
P10MA-5%	3.2 mA/% (0,00032 mA/ppm)		
P10MA-200-M12	0.08 mA/ppm	M12 female	
P10MA-2000-M12	0.008 mA/ppm		
P10MA-2%-M12	8 mA/% (0,0008 mA/ppm)		
P10MA-5%-M12	3.2 mA/% (0,00032 mA/ppm)		

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Spare parts:

Spare part:	For sensor type:	Item number:
Membrane cap M10N+G	P10H, P10N, P10L (all types), P10 MA-200, MA-2000, MA2%	9026017
Membrane cap M10G+G	P10MA5%	9026015
Electrolyte EPS9H/W	P10H, P10N all types, P10MA-2000	9026071
Electrolyte EPS9L/W	P10 L, all P10MA-2%	9026072
Electrolyte EPS7/W	P10MA-5%	9026064

Accessories:

Type:	For sensor:	Item number:
Sensor-simulator pH, redox, Cl	all sensors with mV signal	21131100
mV-sensor-simulator	all sensors with mV signal	9026205
mA-sensor-simulator	all sensors with mA signal	on request
mV-simulator and mA-Tester	all sensors with mV-signal or mA-signal	21131105
Photometer for calibration	all sensors	on request

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