

DOSASens Peracetic acid sensor P9.2

Sensor for the measurement of peracetic acid. Membrane-covered amperometric 2-electrode system. Surfactants and lead acids are tolerated.



Product description:

- Measurand(s): Peracetic acid
- Calibration:
 - DIN 38409-15 "Determination of hydrogen peroxide"
 - ISO/DIS 7157 "Determination of hydrogen peroxide – titrimetric method"
- Interferences:
 - ClO₂ increases the measuring value
 - H₂O₂ very low influence on the measuring value, reduces the PES signal
 - O₃ increases the measuring value greatly
- 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: 0–60 °C
- Integrated automatic temperature compensation
- Run-in period at first start: 30–180 min
- Response time: T₉₀ approx. 3.5 min at 10 °C, approx. 45 s at 50 °C
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30l/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: PEEK, stainless steel 1.4571

Areas of application:

- Drinking 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:

- DOSASens P9.2 sensor, membrane cap, electrolyte

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
P9.2H-M12	0–200	0.1	0 to -2000 mV 1 kΩ	±5 to ±15 VDC 10 mA	3626360
P9.2N-M12	0–2000	1			3626361
P9.2L-M12	0–2 % (20000 ppm)	0.001 % (10 ppm)			3626362
P9.2H-An-M12	0–200	0.1	0 to -2000 mV (max. -2500 mV) 1 kΩ	9–30 VDC 20–56 mA	3626370
P9.2N-An-M12	0–2000	1			3626371
P9.2L-An-M12	0–2 % (20000 ppm)	0.001 % (10 ppm)			3626372
P9.2H-M0c	0–200	0.1	Modbus RTU		3426130
P9.2N-M0c	0–2000	1			3426131
P9.2L-M0c	0–2 % (20000 ppm)	0.001 % (10 ppm)			3426132

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
P9.2-MA-200	0–200	0.1	4–20 mA	12–30 VDC $R_L = 50 \Omega$ (12 V) to 900 Ω (30 V)	3426100
P9.2-MA-2000	0–2000	1			3426101
P9.2-MA-2%	0–2 % (20000 ppm)	0.001 % (10 ppm)			3426102
P9.2-MA-200-M12	0–200	0.1			3426160
P9.2-MA-2000-M12	0–2000	1			3426161
P9.2-MA-2%-M12	0–2 % (20000 ppm)	0.001 % (10 ppm)			3426162

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
P9.2H-M12	-10 mV/ppm	5-pole M12 male	Connection only to a controller with galvanically separated power supply.
P9.2N-M12	-1 mV/ppm		
P9.2L-M12	-1000 mV/% (-0.1 mV/ppm)		
P9.2H-An-M12	-10 mV/ppm		
P9.2N-An-M12	-1 mV/ppm		
P9.2L-An-M12	-0.1 mV/ppm (-1000 mV/%)		
P9.2H-M0c	Modbus RTU	M12 male	-
P9.2N-M0c			
P9.2L-M0c			
P9.2-MA-200	0.08 mA/ppm	2 pole terminal	Connection only to a controller with galvanically separated power supply.
P9.2-MA-2000	0.008 mA/ppm		
P9.2-MA-2%	8 mA/% (0.0008 mA/ppm)	M12 male	
P9.2-MA-200-M12	0.08 mA/ppm		
P9.2-MA-2000-M12	0.008 mA/ppm		
P9.2-MA-2%-M12	8 mA/% (0.0008 mA/ppm)		

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M9.1N + G-Holder	P9.2 all types	9026016
Electrolyte EPS9H/W	P9.2N, P9.2H, P9.2MA-200, P9.2MA-2000	9026071
Electrolyte EPS9L/W	P9.2L, P9.2MA-2%	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