1.1.1 DOSA*Sens* Peracetic acid Sensor **P9.2**

Sensor for the measurement of peracetic acid, 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:
  - ClO_2 increases the measuring value
  - H_2O_2 very low influence on the measuring value, reduces the PES signal
  - O_3 increases the measuring value greatly
- pH range: 1 … 6
- Pressure range: 0 … 1 bar, no pressure surges and/or fluctuations
- Temperature range: 0 … 60 ^{0}C
- Integrated automatic temperature compensation
- Run-in period at first start: 30 … 180 min
- Response time: T_{90} approx. 3.5 min at 10 °C, approx. 45 s at 50 °C
- Flow rate: approx. 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:

- 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:

- **P9.2:** sensor, membrane cap, electrolyte

Ordering data:

Type:	**Measuring range:** ppm	**Resolution:** ppm	**Output signal:**	**Power supply:**	**Item number:**
P9.**2H**	0 ... 200	0.1	0 ... 2000 mV 1 kΩ	±5 … ±15 VDC 10 mA	3326068
P9.**2N**	0 ... 2000	1			3326067
P9.**2L**	0 ... 2 % (20000 ppm)	0.001 % (10 ppm)			3326082
P9.**2H-An**	0 ... 200	0.1	0 ... -2000 mV (max. -2500 mV) 1 kΩ	9 … 30 VDC 20 … 56 mA	3426110
P9.**2N-An**	0 ... 2000	1			3426111
P9.**2L-An**	0 ... 2 % (20000 ppm)	0.001 % (10 ppm)			3426112

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Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
P9.**2H-M0c**	0 ... 200	0.1	Modbus RTU	9 … 30 VDC 20 … 56 mA	3426130
P9.**2N-M0c**	0 ... 2000	1			3426131
P9.**2L-M0c**	0 ... 2 % (20000 ppm)	0.001 % (10 ppm)			3426132
P9.**2-MA-200**	0 ... 200	0.1	4 ... 20 mA	12 ... 30 VDC RL= 50Ω (12 V) ... 900Ω (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			3426100
P9.**2-MA-2000-M12**	0 ... 2000	1			3426101
P9.**2-MA-2%-M12**	0 ... 2 % (20000 ppm)	0.001 % (10 ppm)			3426102

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
P9.**2H**	-10 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
P9.**2N**	-1 mV/ppm		
P**9.2L**	-1000 mV/% (-0.1 mV/ppm)		
P9.**2H-An**	-10 mV/ppm	4-pin plug	-
P9.**2N-An**	-1 mV/ppm		
P9.**2L-An**	-0.1 mV/ppm (-1000 mV/%)		
P9.**2H-M0c**	Modbus RTU	M12 female	
P9.**2N-M0c**	Modbus RTU		
P9.**2L-M0c**	Modbus RTU		
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)		
P9.**2-MA-200-M12**	0.08 mA/ppm	M12 female	
P9.**2-MA-2000-M12**	0.008 mA/ppm		
P9.**2-MA-2%-M12**	8 mA/% (0.0008 mA/ppm)		

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Spare parts:

Spare part:	for sensor :	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.**2 MA-2%**,	9026072

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