

## DOSASens Peracetic acid sensor PES7

Sensor for the measurement of peracetic acid ( $C_2H_4O_3$ ), with membrane-covered, amperometric 2-electrode system. Up to 1% of sulfur- and nitric acid are tolerated. The membrane system is mechanically robust, tensides are partially tolerated.



### Product description:

- Measurand(s): Peracetic acid
- Calibration:
  - titrimetric method or with PES standard solution e.g.
- Interferences:
  - $ClO_2$  is registered with factor 1 of its measuring value
  - $H_2O_2$  is registered with factor 0.005 of its measuring value
  - $O_3$  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, not any ice crystal in test water
- Integrated automatic temperature compensation
- Response time:  $T_{90}$  approx. 3 min.
- Absence of the disinfectant: max. 24 h
- Flow rate: approx. 15–30 l/h, low flow-dependence
- Shaft length: standard 175 mm, and up to 220 mm in length (mA-Version)
- Connection: 5-pin M12 screwed plug (mV-, mA-, Modbus RTU-version), 2-pole terminal (mA-Version)
- Material: PVC-U, stainless steel 1.4571

### Areas of application:

- All types of water treatment (e. g. CIP system), including seawater.
- Lead acids are tolerated.
- Tensides are partially tolerated.

### Scope of supply:

- DOSASens PES7 sensor, membrane cap, electrolyte, operating manual

### Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
PES7H-M12	0.5–200	0.1	0 to -2000 mV 1 kΩ	±5 to ±15 VDC, 10 mA	3626340
PES7N-M12	5–2000	1			3626341
PES7L-M12	0.005–2% (20000)	0.001% (10)			3626342
PES7H-An-M12	0.5–200	0.1		9–30 VDC, 20–56 mA	3626350
PES7N-An-M12	5–2000	1			3626351
PES7L-An-M12	0.005–2% (20000)	0.001% (10)			3626352
PES7Up	5–2000	1		±5 to ±12,5 VDC, 10 to 25 VDC, 25 mA	3326061
PES7Up5000	50–5000	1		±5 to ±15 VDC, 10 mA	3626010
PES7H-M0c	0.5–200	0.1	Modbus RTU	9–30 VDC 20–56 mA	3226220
PES7N-M0c	5–2000	1			3226221
PES7L-M0c	0.005–2% (20000)	0.001% (10)			3226222

### Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
PES7MA-CC	0,5–200	0,1	4–20 mA	12–30 VDC $R_L = 50$ to 900 $\Omega$	3326069
PES7MA-D	5–500	1,0			3326065
PES7MA-M	5–1000	1,0			3326097
PES7MA-MM	5–2000	1,0			3326063
PES7MA-5M	50–5000	1,0			3326066
PES7MA-CC-M12	0,5–200	0,1			3226240
PES7MA-D-M12	5–500	1,0			3226241
PES7MA-M-M12	5–1000	1,0			3226242
PES7MA-MM-M12	5–2000	1,0			3226243
PES7MA-5M-M12	50–5000	1,0			3226244

### Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
PES7H-M12	-10 mV/ppm	5-pole M12 male	Connection only to a controller with galvanically separated power supply.
PES7N-M12	-1 mV/ppm		
PES7L-M12	-1000 mV/% (-0,1 mV/ppm)		
PES7H-An-M12	-10 mV/ppm		
PES7N-An-M12	-1 mV/ppm		
PES7L-An-M12	-1000 mV/% (-0,1 mV/ppm)		
PES7H-M0c	-10 mV/ppm		
PES7N-M0c	-1 mV/ppm		
PES7L-M0c	-1000 mV/% (-0,1 mV/ppm)		
PES7MA-CC	0,08 mA/ppm		
PES7MA-D	0,032 mA/ppm		
PES7MA-M	0,016 mA/ppm		
PES7MA-MM	0,008 mA/ppm		
PES7MA-5M	32 mA/% (0,0032 mA/ppm)		
PES7Up	1 mV/ppm	5-pin M12 screwed plug	-
PES7Up5000	0,4 mV/ppm		

### Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M7.1N	PES7 (H, Hup, N, Un, Up, MA-CC, MA-D, MA-M, MA-MM)	9026010
Membrane cap M7.1L	PES/ (L, Up5000, MA-XM, MA-XXM, MA-5M)	9026012
Electrolyte EPS7/W	PES7 (100 ml) all types	9026064
Electrolyte EPS7L/W	PES7L, PES7Up5000 (100 ml)	9026068

### 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