

## Peracetic acid sensor PES7

Sensor for the measurement of peracetic acid  $C_2H_4O_3$ , up to 1%ige sulfur- and nitric acid are 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: 0 ... 1 bar, no pressure surges and/or fluctuations
- 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. 30 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, for mA-version 2-pole terminal
- Material: PVC-U, stainless steel 1.4571

### Areas of application:

- Fresh water, all types of water treatment.
- Lead acids are tolerated.
- Surfactants must not be existent.

### Scope of supply:

- PES7 sensor, membrane cap, electrolyte

### Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
PES7H	0 ... 200	0,1	0 ... -2000 mV 1 kΩ	±5 ... ±15 VDC, 10 mA	3326062
PES7N	0 ... 2000	1			3326060
PES7L	0 ... 2% (20000)	0,001% (10)			3326064
PES7H-An	0 ... 200	0,1		9 ... 30 VDC, 20 ... 56 mA	3226200
PES7N-An	0 ... 2000	1			3226201
PES7L-An	0 ... 2% (20000)	0,001% (10)			3226202
PES7Up	0 ... 2000	1	±5 ... ±12,5 VDC, 10 ... 25 VDC, 25 mA	3326061	
PES7Up5000	0 ... 5000	5		±5 ... ±15 VDC, 10 mA	3626010
PES7H-M0c	0 ... 200	0,1	Modbus RTU	9 ... 30 VDC 20 ... 56 mA	3226220
PES7N-M0c	0 ... 2000	1			3226221
PES7L-M0c	0 ... 2% (20000)	0,001% (10)			3226222

**Ordering data:**

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
PES7MA-CC	0 ... 200	0,1	4 ... 20 mA	12 ... 30 VDC R <sub>L</sub> = 50 ... 900 Ω	3326069
PES7MA-D	0 ... 500	1			3326065
PES7MA-M	0 ... 1000	1			3326097
PES7MA-MM	0 ... 2000	1			3326063
PES7MA-5M	0 ... 5000	1			3326066
PES7MA-CC-M12	0 ... 200	0,1			3226240
PES7MA-D-M12	0 ... 500	1			3226241
PES7MA-M-M12	0 ... 1000	1			3226242
PES7MA-MM-M12	0 ... 2000	1			3226243
PES7MA-5M-M12	0 ... 5000	1			3226244

**Additional technical data:**

Type:	Slope:	Cable Connection:	Special characteristics:
PES7H	-10 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
PES7N	-1 mV/ppm		
PES7L	-1000 mV/% (-0,1 mV/ppm)		
PES7H-An	-10 mV/ppm		
PES7N-An	-1 mV/ppm		
PES7L-An	-1000 mV/% (-0,1 mV/ppm)		
PES7H-M0c	-10 mV/ppm	M12 female	-
PES7N-M0c	-1 mV/ppm		
PES7L-M0c	-1000 mV/% (-0,1 mV/ppm)		
PES7MA-CC	0,08 mA/ppm	2 pole terminal	Connection only to a controller with galvanically separated power supply.
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	4-pin plug	-
PES7Up5000	0,4 mV/ppm		

**Spare parts:**

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

**Accessories:**

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