

DOSA*Sens* Hydrogen peroxide sensor WP10

Sensor for the measurement of hydrogen peroxide – especially for high concentrations. Membrane-covered, amperometric 2-electrode system. The membrane system is mechanically robust. The membrane system is largely tensile resistant.

Product description:

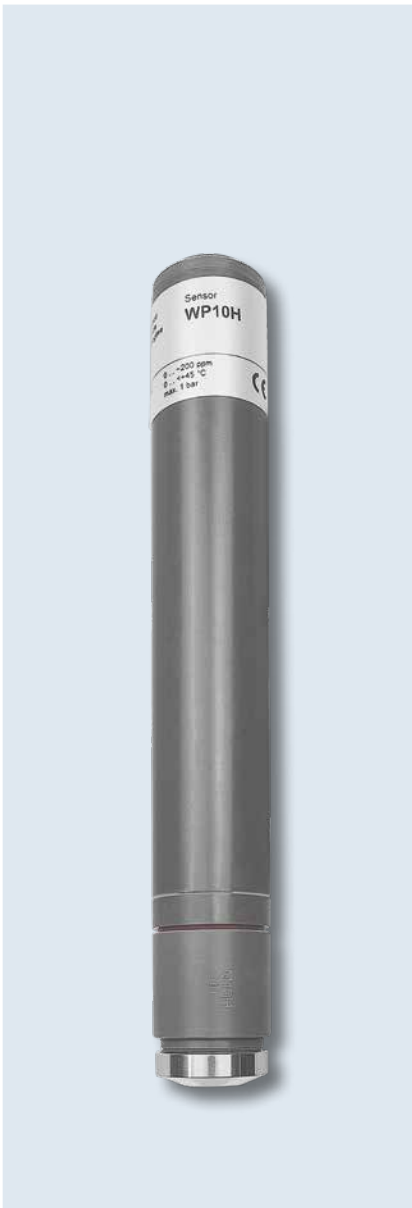
- Measurand(s): hydrogen peroxide
- Calibration:
 - DIN 38409-15 "Determination of hydrogen peroxide"
 - ISO/DIS 7157 "Determination of hydrogen peroxide – titrimetric method"
- Interferences:
 - Cl₂ must not be existent
 - PES must not be existent
 - O₃ must not be existent
 - Sulfide must not be existent
- Phenoles aquaous solution >3 % must not be existent
- pH range: 2–11
- 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: 5–45 °C
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 8 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: 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:

- All types of water treatment, also sea water, surfactants are tolerated to the greatest possible extent.

Scope of supply:

- DOSA*Sens* WP10 sensor, membrane cap, electrolyte, operating manual



Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
WP10H-M12	0,5 ... 200	0,1 ppm	0 to -2000 mV 1 kΩ	±5 to ±15 V DC 10 mA	3626320
WP10N-M12	5 ... 2000	1 ppm			3626321
WP10L-M12	0,005 ... 20000	0,001 % (10 ppm)			3626322
WP10-20%-M12	0,05 ... 200000	0,01% (100 ppm)			3626323
WP10H-An-M12	0,5 ... 200	0,1 ppm	0 to -2000 mV (max -2500 mV) 1 kΩ	9–30 V DC 20–56 mA	3626330
WP10N-An-M12	5 ... 2000	1 ppm			3626331
WP10L-An-M12	0,005 ... 2 % (20000 ppm)	0,001 % (10 ppm)			3626332
WP10-20%-An-M12	0,05 ... 20 % (200000 ppm)	0,01 % (100 ppm)			3626333
WP10H-M0c	0,5 ... 200	0,1	Modbus RTU		3326350
WP10N-M0c	5 ... 2000	1			3326353
WP10L-M0c	0,005 ... 2 % (20000 ppm)	0,001 % (10 ppm)			3326351
WP10-20%-M0c	0,05 ... 20 % (200000 ppm)	0,01 % (100 ppm)			3326352

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
WP10MA-200	0,5 ... 200	0,1	4 – 20 mA	12 – 30 VDC R _L = 50 to 900 Ω	3326313
WP10MA-2000	5 ... 2000	1			3326314
WP10MA-2%	0,005 ... 2 % (20000 ppm)	0,001 % (10 ppm)			3326310
WP10MA-5%	0,05 ... 5 % (50000 ppm)	0,01 % (100 ppm)			3326311
WP10MA-10%	0,05 ... 10 % (100000 ppm)	0,01 % (100 ppm)			3326312
WP10MA-200-M12	0,5 ... 200	0,1			3326323
WP10MA-2000-M12	5 ... 2000	1			3326324
WP10MA-2%-M12	0,005 ... 2 % (20000 ppm)	0,001 % (10 ppm)			3326320
WP10MA-5%-M12	0,05 ... 5 % (50000 ppm)	0,01 % (100 ppm)			3326321
WP10MA-10%-M12	0,05 ... 10 % (100000 ppm)	0,01 % (100 ppm)			3326322

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
WP10H-M12	-10 mV/ppm	5-pole M12 male	Connection only to a controller with galvanically separated power supply.
WP10N-M12	-1 mV/ppm		
WP10L-M12	-1000 mV/% (-0.1 mV/ppm)		
WP10-10-20%-M12	-100 mV/% (-0.01 mV/ppm)		
WP10H-An-M12	-10 mV/ppm		
WP10N-An-M12	-1 mV/ppm		
WP10L-An-M12	-1000 mV/% (-0.1 mV/ppm)		
WP10-20%-An-M12	-100 mV/% (-0.01 mV/ppm)		
WP10H-M0c	Modbus RTU	M12 male	Connection only to a controller with galvanically separated power supply.
WP10N-M0c			
WP10L-M0c			
WP10-20%-M0c			
WP10MA-200	2-pole terminal	2-pole terminal	
WP10MA-2000			
WP10MA-2%			
WP10MA-5%			
WP10MA-10%			
WP10MA-200-M12	M12 female	M12 male	
WP10MA-2000-M12			
WP10MA-2%-M12			
WP10MA-5%-M12			
WP10MA-10%-M12			

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap M10.1H + G	WP10H, WP10N, WP10MA-200, WP10MA2000 (all)	9026018
Membrane cap M10.1D + G	WP10L, WP10-20%, WP10MA-2%, WP10MA-5%, WP10MA-10%, WP10MA-20%; (all)	9026015
Electrolyte EWP7/W	WP10 all types	9026062

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
Photometer for calibration	chlorine, total chlorine, isocyanuric, pH, hydrogen peroxide	90231040