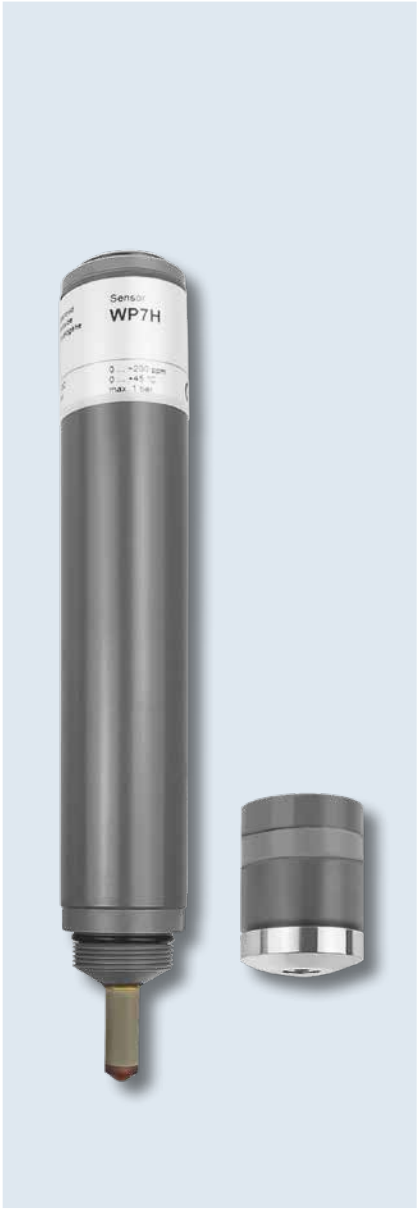
DOSA*Sens* Hydrogen peroxide sensor **WP7**



Sensor for the measurement of hydrogen peroxide, with membrane-covered, amperometric 2-electrode system. Tensides are partially tolerated. The membrane system is mechanically robust.

Product description:

- Measurand(s): Hydrogen peroxide
- Calibration:
  - DIN 38409-15 “Determination of hydrogen peroxide”
  - ISO/DIS 7157 “Determination of hydrogen peroxide – titrimetric method”
- Interferences:
  - Cl_2 must not be existent
  - Peroxyacetic acid $C_2H_4O_3$ must not be existent
  - O_3 must not be existent
  - Sulfides 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: 0 – 45 °C, no ice crystals in the measuring water
- Itengrated automatic temperature compensation
- Response time: T_{90} approx. 5 – 10 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; M12 male, mA-version 2-pole terminal or M12 male
- Material: PVC-U, stainless steel 1.4571

Areas of application:

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

Scope of supply:

- DOSA*Sens* **WP7** sensor, membrane cap, electrolyte, operating manual

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
WP7**H-M12**	0.5 – 200	0.1	0 ... -2000 mV 1 kΩ	±5 … ±15 VDC 10 mA	3626300
WP7**N-M12**	5 – 2000	1.0			3626301
WP7**H-An-M12**	0.5 – 200	0.1		9 … 30 VDC 20 … 56 mA	3626310
WP7**N-An-M12**	5 – 2000	1.0			3626311
WP7**H-M0c**	0.5 – 200	0.1	Modbus RTU		3226130
WP7**N- M0c**	5 – 2000	1.0			3226131
WP7**MA-CC**	0.5 – 200	0.1	4 ... 20 mA	12 ... 30 VDC R_L = 50 ... 900 Ω	3326081
WP7**MA-D**	5 – 500	0.1			3326075
WP7**MA-M**	0 – 1000	1.0			3326099
WP7**MA-MM**	0 – 2000	1.0			3326074
WP7**MA-XM**	0.005 – 10000	10.0			3326072
WP7**MA-CC-M12**	0.5 – 200	0.1			3226100

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
WP7**MA-D-M12**	5 – 500	0.1	4 – 20 mA	12 – 30 VDC R_L = 50 – 900 Ω	3426421
WP7**MA-M-M12**	5 – 1000	1.0			3426422
WP7**MA-MM-M12**	5 – 2000	1.0			3426423
WP7**MA-XM-M12**	0.005 – 10000	10.0			3426424

Additional technical data:

Type:	Slope:	Cable Connection:	Special characteristics:
WP7**H-M12**	-10 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
WP7**N-M12**	-1 mV/ppm		
WP7**H-An-M12**	-10 mV/ppm		-
WP7**N-An-M12**	-1 mV/ppm		
WP7**H-M0c**	-10 mV/ppm	M12 male	
WP7**N- M0c**	-1 mV/ppm		
WP7**MA-CC**	0.08 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
WP7**MA-D**	0.032 mA/ppm		
WP7**MA-M**	0.016 mA/ppm		
WP7**MA-MM**	0.008 mA/ppm		
WP7**MA-XM**	0.0016 mA/ppm		
WP7**MA-CC-M12**	0.08 mA/ppm	male	
WP7**MA-D-M12**	0.032 mA/ppm		
WP7**MA-M-M12**	0.016 mA/ppm		
WP7**MA-MM-M12**	0.008 mA/ppm		
WP7**MA-XM-M12**	0.0016 mA/ppm		

Spare parts:

Spare parts:	for sensor type:	Item number:
Membrane cap **M7.1N**	**WP7** (all types except WP7MA-XM, WP7MA-XM-M12)	9026010
Membrane cap **M7.1D**	WP7**MA-XM**, WP7**MA-XM-M12**	9026007
Electrolyte **EWP7/W**	**WP7** 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	90231030