

1.1.1 DOSASens Hydrogen peroxide Sensor WP10

Sensor for the measurement of hydrogen peroxide – especially for high concentrations.



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: 0 ... 1 bar, no pressure surges and/or fluctuations
- Temperature range: 5 ... 45 °C
- Integrated automatic temperature compensation
- Response time: T₉₀ approx. 8 min
- 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; 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, surfactants are tolerated to the greatest possible extent

Scope of supply:

- **WP10:** sensor, membrane cap, electrolyte

Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
WP10H	0 ... 200 ppm	0.1 ppm	0 ... -2000 mV 1 kΩ	±5 ... ±15 VDC 10 mA	3326380
WP10N	0 ... 2000 ppm	1 ppm			3326383
WP10L	0 ... 2 % (20000 ppm)	0,001 % (10 ppm)			3326381
WP10-20%	0 ... 20 % (200000 ppm)	0,01% (100 ppm)			3326382
WP10H-An	0 ... 200 ppm	0.1 ppm	0 ... -2000 mV (max -2500 mV) 1 kΩ	9 ... 30 VDC 20 ... 56 mA	3326304
WP10N-An	0 ... 2000 ppm	1 ppm			3326306
WP10L-An	0 ... 2 % (20000 ppm)	0.001 % (10 ppm)			3326300

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Ordering data:

Type:	Measuring range: ppm	Resolution: ppm	Output signal:	Power supply:	Item number:
WP10-20%-An	0 ... 20 % (200000 ppm)	0.01 % (100 ppm)	0 ... -2000 mV (max -2500 mV) 1 kΩ	9 ... 30 VDC 20 ... 56 mA	3326301
WP10H-M0c	0 ... 200 ppm	0.1 ppm	Modbus RTU		3326350
WP10N-M0c	0 ... 2000 ppm	1 ppm			3326353
WP10L-M0c	0 ... 2 % (20000 ppm)	0.001 % (10 ppm)			3326351
WP10-20%-M0c	0 ... 20 % (200000 ppm)	0.01 % (100 ppm)			3326352
WP10MA-200	0 ... 200 ppm	0.1 ppm		4 ... 20 mA	12 ... 30 VDC RL 50Ω ... RL 900Ω
WP10MA-2000	0 ... 2000 ppm	1 ppm	3326314		
WP10MA-2%	0 ... 2 % (20000) ppm	0.001 % (10 ppm)	3326310		
WP10MA-5%	0 ... 5 % (50000) ppm	0.01 % (100 ppm)	3326311		
WP10MA-10%	0 ... 10 % (100000) ppm	0.01 % (100 ppm)	3326312		
WP10MA-200-M12	0 ... 200 ppm	0.1 ppm	4 ... 20 mA	12 ... 30 VDC RL 50Ω ... RL 900Ω	3326323
WP10MA-2000-M12	0 – 2000 ppm	1 ppm			3326324
WP10MA-2%-M12	0 ... 2 % (20000) ppm	0.001 % (10 ppm)			3326320
WP10MA-5%-M12	0 – 5 % (50000) ppm	0.01 % (100 ppm)			3326321
WP10MA-10%-M12	0 ... 10 % (100000) ppm	0.01 % (100 ppm)			3326322

Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
WP10H	-10 mV/ppm	4-pin plug	Connection only to a controller with galvanically separated power supply.
WP10N	-1 mV/ppm		
WP10L	-1000 mV/% (-0.1 mV/ppm)		
WP10-10-20%	-100 mV/% (-0.01 mV/ppm)		
WP10H-An	-10 mV/ppm		
WP10N-An	-1 mV/ppm		
WP10L-An	-1000 mV/% (-0.1 mV/ppm)		
WP10-20%-An	-100 mV/% (-0.01 mV/ppm)		

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Additional technical data:

Type:	Slope:	Connection:	Special characteristics:
WP10H-M0c	Modbus RTU	M12 female	-
WP10N-M0c			
WP10L-M0c			
WP10-20%-M0c			
WP10MA-200	0.08 mA/ppm	2-pole terminal	Connection only to a controller with galvanically separated power supply.
WP10MA-2000	0.8 mA/ppm		
WP10MA-2%	8 mA/% (0.0008 mA/ppm)		
WP10MA-5%	3.2 mA/% (0.00032 mA/ppm)		
WP10MA-10%	1.6 mA/% (0.00016 mA/ppm)		
WP10MA-200-M12	0.08 mA/ppm	M12 female	
WP10MA-2000-M12	0.8 mA/ppm		
WP10MA-2%-M12	8 mA/% (0.0008 mA/ppm)		
WP10MA-5%-M12	3.2 mA/% (0.00032 mA/ppm)		
WP10MA-10%-M12	1.6 mA/% (0.00016 mA/ppm)		

Spare parts:

Spare part:	for sensor :	Item number:
Membrane cap M10H+G	WP10H, WP10N, WP10MA-200, WP10MA-2%, WP10MA-5%, (alle)	9026018
Membrane cap M10G+G	WP10L, WP10-20%, (all)	9026015
Electrolyte EWP7/W	WP10 all types	9026062

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	90231040

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07-11-2017