



SE 554 Memosens pH/ORP Sensor

Low-maintenance sensor for demanding process applications in the chemical industry, digital, with Memosens technology

The special design provides high accuracy, stability, speed, and a long life cycle. Through 2 open junctions, the reference system is in direct contact with the measured medium. There is hardly any risk of contamination or blocking of the junction. The high content and special distribution of potassium chloride in the polymer reduces measurement disturbances which could be caused by liquid junction potentials.

Applications

Measurement in media of extremely high ionic strength, salt brines, strongly oxidizing media, acidic and alkaline media

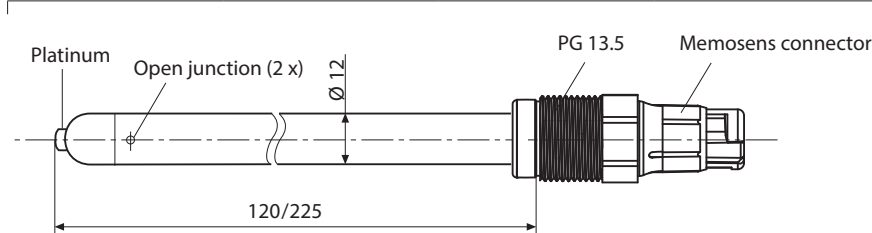
Facts

- Simultaneous measurement of pH and ORP
- Perfect galvanic isolation thanks to Memosens technology
- No influence of humidity in the connector
- Precalibration in the lab
- Digital data transfer
- Integrated sensor diagnostics
- Low maintenance, no refilling of electrolyte
- Integrated temperature detector
- Open junctions, no blocking

Specifications

pH:	0 ... 14
ORP:	-1500 ... +1500 mV
Temperature:	0 ... 130 °C
Pressure, relative:	0 ... 10 bar
Temperature detector:	NTC 30 kΩ
pH sensor material:	Alpha glass
ORP sensor material:	Platinum
Reference system:	Ag/AgCl, polymer electrolyte
Junction:	Hole (2 x)
Length:	120 mm / 225 mm
Process adaptation:	PG 13.5
Sensor connector:	Memosens
ATEX marking	II 1 G Ex ia IIC T3 / T4 / T6 Ga

Dimension Drawing



Product line		Length	Order No.
SE 554 pH/ORP sensor		120 mm	SE 554X/1-AMSN
		225 mm	SE 554X/2-AMSN
Accessories		Length	Order No.
Memosens cable		3 m	CA/MS-003NAA
		5 m	CA/MS-005NAA
		10 m	CA/MS-010NAA
		20 m*	CA/MS-020NAA
Memosens cable, Ex		3 m	CA/MS-003XAA
		5 m	CA/MS-005XAA
		10 m	CA/MS-010XAA
		20 m*	CA/MS-020XAA
CaliMat Buffer Solutions (20 °C)		Quantity	Order No.
pH value 2.00 ± 0.02		250 ml	CS-P0200/250
		250 ml	CS-P0400/250
		1000 ml	CS-P0400/1000
pH value 4.00 ± 0.02		3000 ml	CS-P0400/3000
		250 ml	CS-P0700/250
		1000 ml	CS-P0700/1000
pH value 7.00 ± 0.02		3000 ml	CS-P0700/3000
		250 ml	CS-P0900/250
		1000 ml	CS-P0900/1000
pH value 9.00 ± 0.02		3000 ml	CS-P0900/3000
		250 ml	CS-P1200/250
		1000 ml	CS-P1200/1000
pH value 12.00 ± 0.05		3000 ml	CS-P1200/3000
		250 ml	ZU 0317
		1000 ml	
Redox buffer solution +220 mV		250 ml	
MemoSuite			Order No.
Management software for Memosens sensors		Basic version (calibration)	SW-MS1400-B
		Advanced version (calibration, diagnostics, documentation)	SW-MS1400-A

* Greater lengths on request