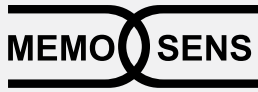


Sensors for pH & ORP Measurements



SE 554 pH & ORP Sensor

Low-maintenance sensor for process applications with suspended solids for use in combination pH/ORP applications

The SE 554 Memosens pH/ORP combination sensor is ideal for use in liquids with suspended solids and high ionic strength. This sensor is constructed using Alpha pH glass, 2 open hole junctions, a solid polymer electrolyte with high KCl concentration, and a platinum ring. These features provide stable performance and long life in the most difficult applications.

The integrated NTC 30K temperature element assures that all pH measurements are accurately compensated.

The robust sensor design & construction, along with the integration of Memosens technology, provide for a significant reduction in overall cost of ownership.

Applications

- Media with high suspended solids
- Wet gas scrubber
- Slurries
- Waste water

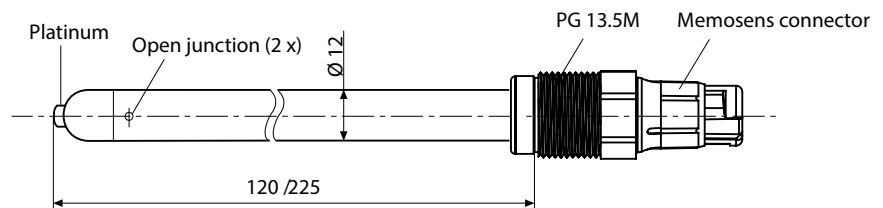
Facts

- Simultaneous measurement of pH & ORP
- Perfect galvanic isolation due to Memosens technology
- No influence from moisture in the connector
- Pre-calibration in the shop or lab
- Digital data transfer
- Integrated sensor diagnostics
- Low maintenance, no refilling of electrolyte
- Integrated temperature detector
- Open junctions, no plugging

Specifications

pH:	0 ... 14
ORP:	± 1500 mV
Temperature:	32 ... 266°F (0 ... 130°C)
Pressure:	0 ... 145 psig (1 ... 10 bar)
Temperature detector:	NTC 30 kohms
pH sensor material:	Alpha Glass
ORP sensor material:	Platinum
Reference system:	Ag/AgCl, polymeric electrolyte
Junction:	Hole (2 x)
Length:	120 or 225 mm
Process connection:	Pg 13.5
Sensor cap:	Memosens
ATEX Certificate:	II 1 G Ex ia IIC T3/T4/T6
FM Approval (US & C)	Cl. 1 Div. 1, GP ABCD T3/T4/T6

Dimensional Drawing



All dimensions in mm

Product Range

SE 554 pH/ORP sensor Memosens

Length 120 mm
Length 225 mm

Order No.

SE 554X/1-ASMN
SE 554X/2-ASMN

Accessories

Memosens cable

3 m
5 m
10 m
20 m^{*)}

Order No.

CA/MS-003NAA
CA/MS-005NAA
CA/MS-010NAA
CA/MS-020NAA

Memosens cable, Ex

3 m
5 m
10 m
20 m^{*)}

CA/MS-003XAA
CA/MS-005XAA
CA/MS-010XAA
CA/MS-020XAA

Buffer Solutions (20 °C)

pH value 2.00 ± 0.02

Quantity

250 ml

Order No.

CS-P0200/250

pH value 4.00 ± 0.02

250 ml
1000 ml
3000 ml

CS-P0400/250
CS-P0400/1000
CS-P0400/1000

pH value 7.00 ± 0.02

250 ml
1000 ml
3000 ml

CS-P0700/250
CS-P0700/1000
CS-P0700/1000

pH value 9.00 ± 0.02

250 ml
1000 ml
3000 ml

CS-P0900/250
CS-P0900/1000
CS-P0900/1000

pH value 12.00 ± 0.05

250 ml

CS-P1200/250

Redox buffer solution ±220 mV

250 ml

ZU 0317

MemoSuite

Management software for
Memosens sensors

Basic version (calibration)

Advanced version (calibration, diagnostics, documentation)

Order No.

SW-MS1400-B

SW-MS1400-A

^{*)} Greater lengths on request