

Sensors for pH Measurement

MEMOSENS



SE 554 pH Sensor

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

The SE 554 Memosens pH 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. 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

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

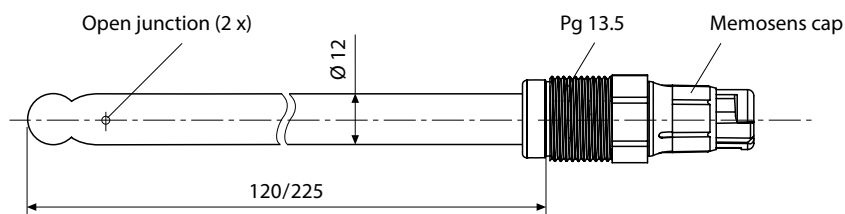
Facts

- 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
Temperature:	32 ... 266°F (0 ... 130°C)
Pressure:	0 ... 145 psig (1 ... 10 bar)
Temperature detector:	NTC 30 kohms, PT 1000
Sensor material:	Alpha glass
Reference system:	Ag/AgCl, polymeric electrolyte
Junction:	Hole (2 x)
Length:	120 or 225 mm
Process connection:	Pg 13.5
Sensor cap:	Memosens, Vario Pin
ATEX Certificate:	II 1 G Ex ia IIC T3/T4/T6
FM Approvals (US & C)	Cl. 1 Div. 1, GP ABCD T3/T4/T6 (Memosens Only)

Dimensional Drawing



All dimensions in mm

Product Range

SE 554 pH sensor

Memosens

Length 120 mm

Order No.

SE 554X/1-NMSN

Length 225 mm

SE 554X/2-NMSN

VP

Length 120 mm

SE 554X/1-NVPN

Length 225 mm

SE 554X/2-NVPN

Accessories

VP6-ST cable

3 m

Order No.

CA/VP6ST-003A

5 m

CA/VP6ST-005A

10 m

CA/VP6ST-010A

20 m^{*)}

CA/VP6ST-020A

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

MemoSuite

Management software for
Memosens sensors

Basic version (calibration)

Order No.

SW-MS1400-B

Advanced version (calibration, diagnostics, documentation)

SW-MS1400-A

^{*)} Greater lengths on request

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