

# Sensors for pH Measurement

Chem

Energy

Water

MEMOSENS



## SE 554 Memosens pH Sensor

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

High accuracy, stability, rapidness, and a long life cycle are achieved by the special design. 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.

### Facts

- 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

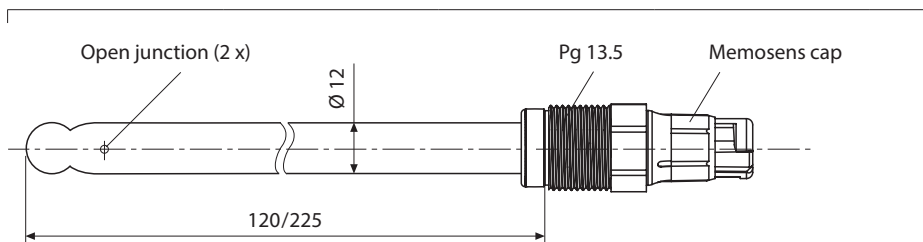
### Applications

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

### Specifications

pH:	0 ... 14
Temperature:	0 ... 130 °C
Pressure:	Up to 10 bars
Temperature detector:	NTC 30 kohms
Sensor material:	Low-impedance standard pH glass, fast response
Reference system:	Ag/AgCl, polymeric electrolyte
Junction:	Hole (2 x)
Length:	120 mm / 225 mm
Process adaptation:	Pg 13.5
Sensor cap:	Memosens
ATEX Certificate:	II 1 G Ex ia IIC T3/T4/T6

### Dimension Drawing



All dimensions in mm

<b>Product Range</b>		<b>Order No.</b>
SE 554 pH sensor	Length 120 mm Length 225 mm	SE 554X/1-NMSN SE 554X/2-NMSN
<b>Accessories</b>		<b>Order No.</b>
Memosens cable	3 m	CA/MS-003NAA
	5 m	CA/MS-005NAA
	10 m	CA/MS-010NAA
	20 m <sup>*)</sup>	CA/MS-020NAA
Memosens cable, Ex	3 m	CA/MS-003XAA
	5 m	CA/MS-005XAA
	10 m	CA/MS-010XAA
	20 m <sup>*)</sup>	CA/MS-020XAA
<b>Buffer Solutions (20 °C)</b>		<b>Order No.</b>
pH value 2.00 ± 0.02	250 ml	CS-P0200/250
	250 ml	CS-P0400/250
	1000 ml 3000 ml	CS-P0400/1000 CS-P0400/1000
pH value 7.00 ± 0.02	250 ml	CS-P0700/250
	1000 ml	CS-P0700/1000
	3000 ml	CS-P0700/1000
pH value 9.00 ± 0.02	250 ml	CS-P0900/250
	1000 ml	CS-P0900/1000
	3000 ml	CS-P0900/1000
pH value 12.00 ± 0.05	250 ml	CS-P1200/250
<b>MemoSuite</b>		<b>Order No.</b>
Management software for Memosens sensors	Basic version (calibration)	SW-MS1400-B
	Advanced version (calibration, diagnostics, documentation)	SW-MS1400-A

<sup>\*)</sup> Greater lengths on request