

Sensors for pH Measurement

Chem

Energy

Pharm

Food

MEMOSENS



SE 555 Memosens pH Sensor

Autoclavable sensor providing high reliability and precision, digital, with Memosens technology

The special pH glass enables a very fast and stable response and makes the sensor CIP- and SIP-capable, even in the harshest of environments. The gel electrolyte of the reference electrode is pressurized and long-term stable. This makes the sensor ideal for routine applications in food processing and biotechnology. It is equally suited for continuous measurements in analytical chemistry.

Applications

Chemical, pharmaceutical industry, biotechnology, food and beverage industry

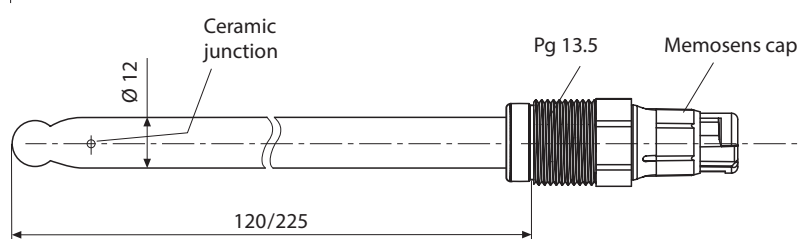
Facts

- Perfect galvanic isolation thanks to Memosens technology
- No influence of humidity in the connector
- Precalibration in the lab
- Digital data transfer
- Integrated sensor diagnostics
- Gel electrolyte, pressurized and long-term stable
- Special pH glass, suitable for sterilization
- Integrated temperature detector
- Ceramic junction
- Safe sterilization with temperature monitoring
- CIP- and SIP-capable

Specifications

pH:	0 ... 14
Temperature:	0 ... 135 °C
Pressure:	-1 ... 6 bars
Temperature detector:	NTC 30 kohms
Sensor material:	Special pH glass for high temperatures (SIP) and high pH values
Reference system:	Ag/AgCl, prepressurized liquid electrolyte with silver ion trap
Junction:	Ceramic (1 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

Product Range		Order No.
SE 555 pH sensor	Length 120 mm Length 225 mm	SE 555X/1-NMSN SE 555X/2-NMSN
Accessories		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
Buffer Solutions (20 °C)		Order No.
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
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