

Sensors for pH Measurement



SE 555 pH Sensor

Steam sterilizable sensor providing high reliability and precision. Available with digital Memosens technology. For use in pH and combination pH applications.

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 providing long-term stability.

Applications

Chemical, petrochemical, pharmaceutical, biotechnology, food and beverage

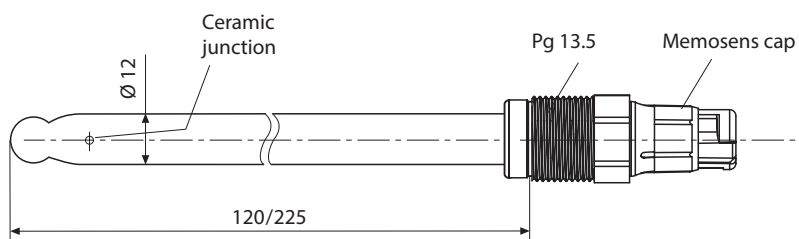
Facts

- 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
- Gel electrolyte, pressurized
- 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:	32 ... 284°F (0 ... 140°C)
Process Pressure:	-14 ... 87 psig (-1 ... 6 bar)
Design Pressure:	0 ... 180 psig (1 ... 12 bar)
Temperature detector:	NTC 30 kohms, PT 1000
Sensor material:	Special pH glass for high temperatures (SIP) and high pH values
Reference system:	Ag/AgCl, pressurized liquid electrolyte with silver ion trap
Junction:	Ceramic (1 x)
Length:	120, 225, 325, 425 mm
Process connection:	Pg 13.5
Sensor cap:	Memosens, Vario Pin, S8
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

Product Range		Length	Order No.	
SE 555 pH sensor	Memosens	Length 120 mm	SE 555X/1-NMSN	
		Length 225 mm	SE 555X/2-NMSN	
		Length 325 mm	SE 555X/3-NMSN	
		Length 425 mm	SE 555X/4-NMSN	
	VP	Length 120 mm	SE 555X/1-NVPN	
		Length 225 mm	SE 555X/2-NVPN	
		Length 120 mm	SE 555X/1-NS8N	
	S8			

Accessories

Accessories	Length	Order No.
VP6-ST cable	3 m	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

MemoSuite	Order No.
Management software for Memosens sensors	SW-MS1400-B
Basic version (calibration)	SW-MS1400-A
Advanced version (calibration, diagnostics, documentation)	

^{*)} Greater lengths on request