MEMO❘SENS

SE555 Memosens pH/ORP Sensor

Steam-sterilizable sensor providing high reliability and precision, digital, with Memosens technology

The digital pH/ORP sensor SE555X/*-AMSN has a special pH glass with high impedance for high-temperature applications and low alkali error as well as a platinum disk as ORP measuring element.

The sensor is CIP and SIP capable. The silver ion trap prevents contamination and blocking of the junction by silver sulfide in sulfide-containing media. The reference electrolyte is biocompatible. This makes the sensor predestined for applications in food and biotechnology, but it is also suitable for continuous and simultaneous measurement of pH and ORP in process chemistry or wastewater.

In addition, the Memosens technology offers all known advantages in terms of handling and sensor diagnostics.

Applications
Fermentation, food and beverage, aggressive media, extreme pH values, waste water

Facts and Features
- Simultaneous measurement of pH and ORP
- Gel electrolyte, pressurized and long-term stable
- Ceramic junction
- Silver ion trap
- Integrated temperature detector
- Omega glass with high impedance for high-temperature applications, very low alkali error
- CIP/SIP capable, safe sterilization with temperature monitoring
- Perfect galvanic isolation thanks to Memosens technology
- No influence of humidity in the connector
- Precalibration in the lab
- Digital data transfer
- Integrated sensor diagnostics

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Specifications

pH:	0 … 14
ORP:	–1500 … 1500 mV
Temperature:	0 … 135 °C
Temperature detector:	NTC 30 kΩ
Pressure, relative:	–1 … 6 bar
Reference system:	Ag/AgCl with silver ion trap
Electrolyte:	Gel electrolyte, pressurized
Junction:	Ceramic (1x)
Sensor material pH:	Omega glass, high impedance, very low alkali error
Sensor material ORP:	Platinum
Length:	120 mm / 225 mm
Process connection:	PG 13.5
Sensor connector:	Memosens
Explosion protection:	See Ex certificates and EU declaration of conformity or www.knick.de

Dimension Drawing

Platinum

Ceramic junction

Ø 12

PG 13.5

Memosens connector

120 / 225
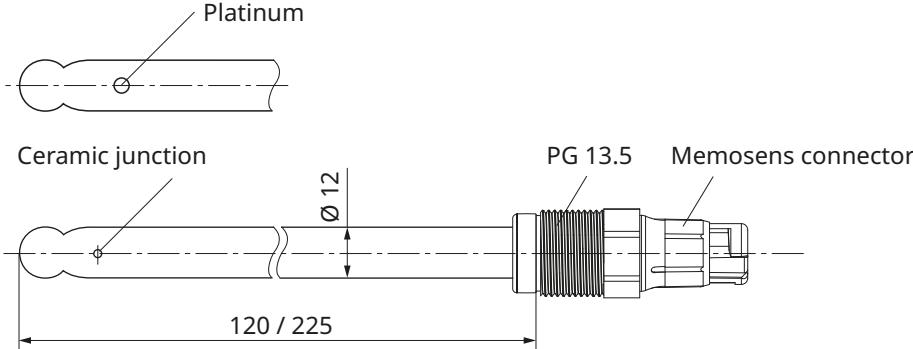
SE555 pH/ORP Sensor

Product Range

Sensor	Length	Order No.
SE555 pH/ORP sensor	120 mm	SE555X/1-AMSN
	225 mm	SE555X/2-AMSN

Accessories	Length	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

CaliMat Buffer Solutions (20 °C)	Quantity	Order No.
pH value 2.00 ± 0.02	250 ml	CS-P0200/250
	3000 ml	CS-P0200/3000
pH value 4.00 ± 0.02	250 ml	CS-P0400/250
	1000 ml	CS-P0400/1000
	3000 ml	CS-P0400/3000
pH value 7.00 ± 0.02	250 ml	CS-P0700/250
	1000 ml	CS-P0700/1000
	3000 ml	CS-P0700/3000
pH value 9.00 ± 0.02	250 ml	CS-P0900/250
	1000 ml	CS-P0900/1000
	3000 ml	CS-P0900/3000
pH value 12.00 ± 0.05	250 ml	CS-P1200/250
ORP buffer solution + 220 mV	250 ml	ZU0317

*) Greater lengths on request