MEMOSENS



SE 555 pH & ORP Sensor

Steam- sterilizable sensor providing high reliability and precision, digital, and 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 an 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 & beverage
- Aggressive media
- Extreme pH values
- Wastewater

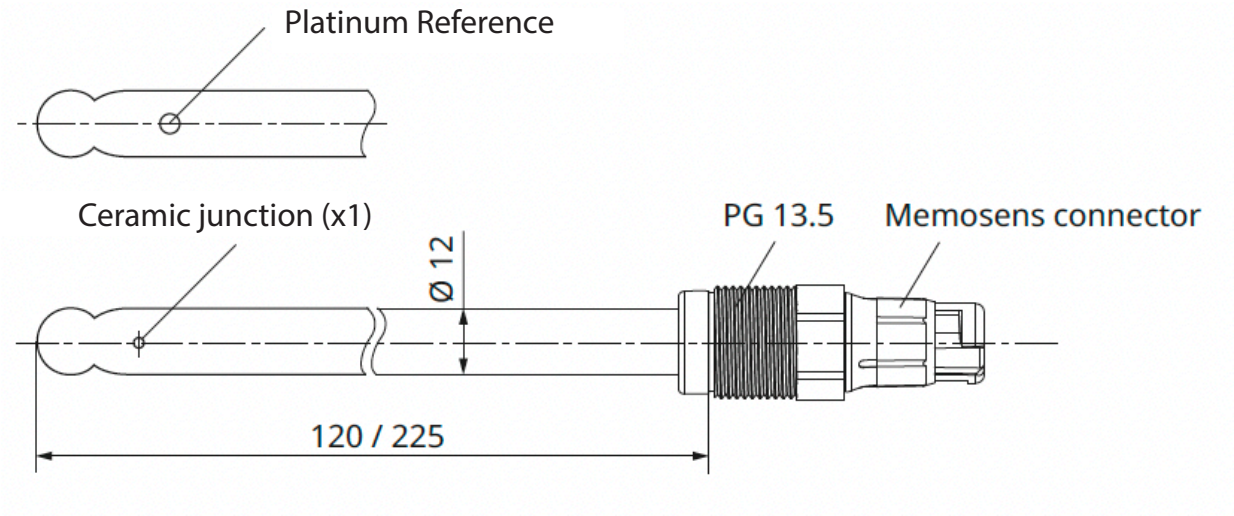
Facts

- 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

Specifications

pH:	0 … 14
ORP:	-1500 … 1500 mV
Temperature:	32 ... 275°F (0 ... 135°C)
Pressure:	-1 ... 6 bar
Temperature detector:	NTC 30 kohms
pH sensor material:	Omega glass, high impedance, very low alkali error
ORP sensor material:	Platinum
Reference system:	Ag/AgCl with silver ion trap
Junction:	Ceramic (1 x)
Length:	120 or 225 mm
Process connection:	Pg 13.5
Sensor cap:	Memosens
Explosion protection	See Ex certificates at www.m4knick.com

Dimensional Drawing



Sensors for pH & ORP Measurements

Product Range			Order No.
SE 555 pH/ORP sensor	Memosens	Length 120 mm	SE 555X/1-ASMN
		Length 225 mm	SE 555X/2-ASMN

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)	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-P0900/1000
pH value 12.00 ± 0.05	250 ml	CS-P1200/250
ORP buffer solution ±220 mV	250 ml	ZU 0317

*) Greater lengths on request