

Sensors for pH Measurement

Chem

Energy

Water

MEMOSENS



SE 559 Memosens pH Sensor

For uncomplicated measurement in ultrapure water, water and analytical chemistry, digital, with Memosens technology

The calibrated annular junction enables precise measurements in media of very low conductivity virtually without influence of flow. The large contact surface of the junction minimizes problems caused by contamination. The sensor is ideal for processes for which liquid-electrolyte sensors should be used, but where maintenance is impossible for a longer period of time.

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
- Calibrated annular junction
- Independent of flow

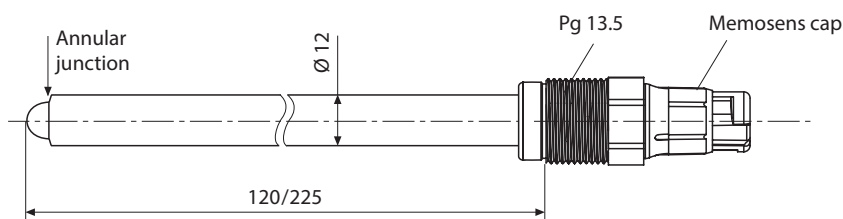
Applications

Boiler feed water, ultrapure water, water supply and distribution, chemical processes

Specifications

pH:	0 ... 14
Temperature:	-5 ... +100 °C
Pressure:	Up to 6 bars
Temperature detector:	NTC 30 kohms
Sensor material:	Low-impedance standard pH glass, fast response
Reference system:	Ag/AgCl, polymeric electrolyte
Junction:	Calibrated annular junction
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 559 pH sensor	Length 120 mm	SE 559X/1-NMSN
	Length 225 mm	SE 559X/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	CS-P0400/1000
pH value 4.00 ± 0.02	3000 ml	CS-P0400/1000
	250 ml	CS-P0700/250
	1000 ml	CS-P0700/1000
pH value 7.00 ± 0.02	3000 ml	CS-P0700/1000
	250 ml	CS-P0900/250
	1000 ml	CS-P0900/1000
pH value 9.00 ± 0.02	3000 ml	CS-P0900/1000
	250 ml	CS-P1200/250
	250 ml	
pH value 12.00 ± 0.05	250 ml	
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