

Sensors for pH Measurement

Chem

Energy

Pharm

Food

Water

MEMOSENS



SE 557 Memosens pH Sensor

For special requirements and high-precision measurements with refillable liquid electrolyte, digital, with Memosens technology

Elimination of typical junction problems resulting in high measurement accuracy in ultrapure water as well as in heavily polluted media and at high temperatures. Integrated, refillable liquid electrolyte reservoir. 2 ceramic junctions, self cleaning due to pressurization (continuous outflow of electrolyte).

Applications

Boiler feed water, water for injection (WFI), semiconductor production, difficult process media requiring high measurement stability

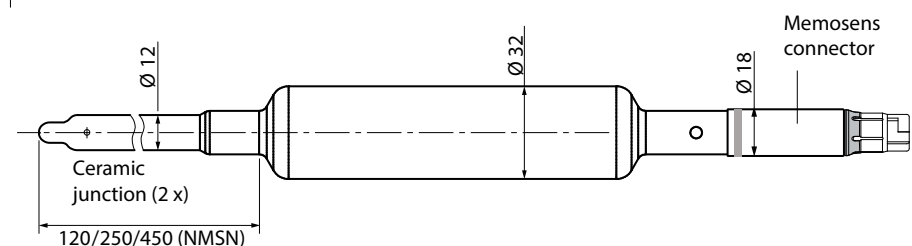
Facts

- Perfect galvanic isolation thanks to Memosens technology
- No influence of humidity in the connector
- Precalibration in the lab
- Digital data transfer
- Integrated sensor diagnostics
- High accuracy
- Extensive measuring range for pH and temperature
- Refillable liquid electrolyte
- 2 ceramic junctions
- Self cleaning due to pressurization
- Integrated temperature detector
- Alpha glass, medium impedance, universal glass, fluoride resistant
- Omega glass, high impedance for high-temperature applications, very low alkali error, CIP/SIP capable

Specifications

pH:	0 ... 14
Temperature:	NMSN: -20 ... +100 °C NMSH: 0 ... +135 °C
Pressure, relative:	-1 ... +6 bar
Temperature detector:	NTC 30 kohms
Sensor material:	NMSN: Alpha glass; NMSH: Omega glass
Reference system:	Ag/AgCl, refillable liquid electrolyte
Junction:	Ceramic (2 x)
Length:	120 mm/250 mm/450 mm (NMSN)
Sensor connector:	Memosens
ATEX marking:	II 1G Ex ia IIC T3/T4/T6

Dimension Drawing



All dimensions in mm

Product Range	Length	Order No.
SE 557 pH sensor (Alpha glass)	120 mm	SE 557X/1-NMSN
	250 mm	SE 557X/2-NMSN
	450 mm	SE 557X/4-NMSN
SE 557 pH sensor (Omega glass)	120 mm	SE 557X/1-NMSH
	250 mm	SE 557X/2-NMSH
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
	250 ml	CS-P0400/250
	1000 ml	CS-P0400/1000
pH value 4.00 ± 0.02	3000 ml	CS-P0400/3000
	250 ml	CS-P0700/250
	1000 ml	CS-P0700/1000
pH value 7.00 ± 0.02	3000 ml	CS-P0700/3000
	250 ml	CS-P0900/250
	1000 ml	CS-P0900/1000
pH value 9.00 ± 0.02	3000 ml	CS-P0900/3000
	250 ml	CS-P1200/250
	1000 ml	CS-P1200/1000
pH value 12.00 ± 0.05	3000 ml	CS-P1200/3000
	250 ml	ZU 0558
Electrolyte	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