

## 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

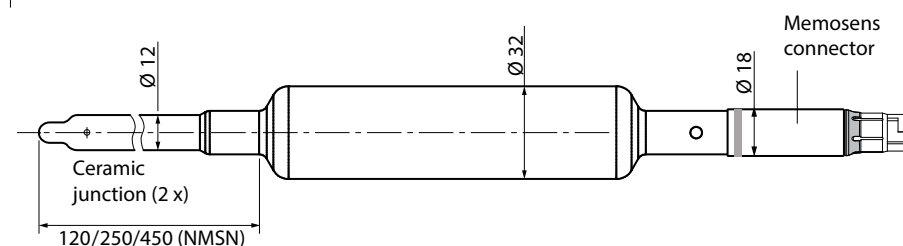
### Facts

- 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

<b>Product Range</b>	<b>Length</b>	<b>Order No.</b>
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
<b>Accessories</b>	<b>Length</b>	<b>Order No.</b>
Memosens cable	3 m	CA/MS-003NAA
	5 m	CA/MS-005NAA
	10 m	CA/MS-010NAA
	20 m <sup>*)</sup>	CA/MS-020NAA
Memosens cable, Ex	3 m	CA/MS-003XAA
	5 m	CA/MS-005XAA
	10 m	CA/MS-010XAA
	20 m <sup>*)</sup>	CA/MS-020XAA
<b>CaliMat Buffer Solutions (20 °C)</b>	<b>Quantity</b>	<b>Order No.</b>
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	
<b>MemoSuite</b>		<b>Order No.</b>
Management software for Memosens sensors	Basic version (calibration)	SW-MS1400-B
	Advanced version (calibration, diagnostics, documentation)	SW-MS1400-A

<sup>\*)</sup> Greater lengths on request