

# Sensors for pH Measurement

Chem

Energy

Pharm

Food

MEMOSENS



## SE 551 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). Silver ion trap prevents junction fouling and contamination.

### Applications

Boiler feed water, water for injection (WFI), semiconductor production, media containing proteins or sulfides, difficult process media requiring high measurement stability.

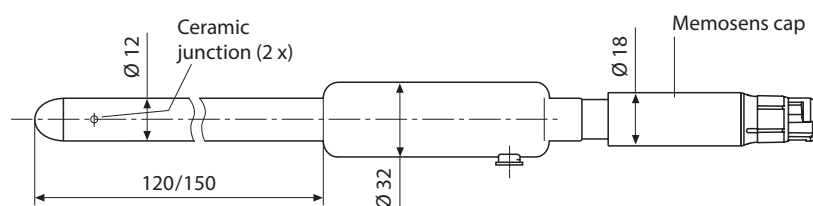
### Facts

- 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
- Silver ion trap
- Integrated temperature detector
- CIP- and SIP-capable

### Specifications

pH:	0 ... 14
Temperature:	0 ... 135 °C
Pressure:	-1 to 6 bars
Temperature detector:	NTC 30 kohms
Sensor material:	Highly alkali-resistant glass
Reference system:	Ag/AgCl with silver ion trap, liquid electrolyte
Electrolyte:	Friscolyt-B ZU 0591
Junction:	Ceramic (2 x)
Length:	120 mm / 225 mm
Immersion depth:	120 mm / 225 mm
Sensor cap:	Memosens
ATEX Certificate:	II 1G Ex ia IIC T3/T4/T6

### Dimension Drawing



All dimensions in mm

<b>Product Range</b>		<b>Order No.</b>
SE 551 pH sensor	Length 120 mm Length 225 mm	SE 551X/1-NMSN SE 551X/2-NMSN
<b>Accessories</b>		<b>Order No.</b>
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
<b>Buffer Solutions (20 °C)</b>		<b>Order No.</b>
pH value 2.00 ± 0.02	250 ml	CS-P0200/250
	250 ml	CS-P0400/250
	1000 ml 3000 ml	CS-P0400/1000 CS-P0400/1000
pH value 7.00 ± 0.02	250 ml	CS-P0700/250
	1000 ml	CS-P0700/1000
	3000 ml	CS-P0700/1000
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
Electrolyte	250 ml	ZU 0591
<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

\*) Greater lengths on request