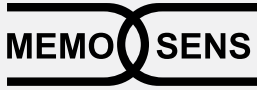


Sensors for pH Measurement



SE 557 pH Sensor

Refillable liquid electrolyte sensor for use in high-precision, low ionic activity, and heavily polluted measurements

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.

One ceramic junction, 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

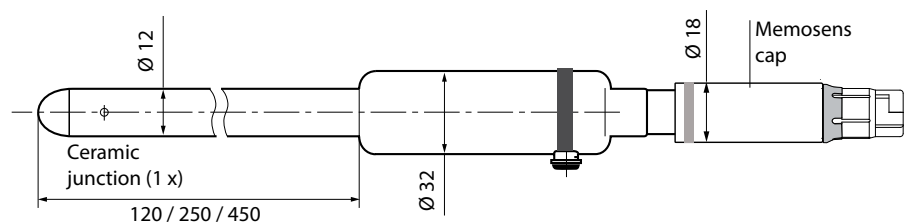
Facts

- Perfect galvanic isolation thanks to Memosens technology
- No influence of humidity in the connector
- Precalibration in the shop or lab
- Digital data transfer
- Integrated sensor diagnostics
- High accuracy
- Extensive measuring range for pH and temperature
- Refillable liquid electrolyte
- 1 ceramic junction
- Self cleaning due to pressurization
- Integrated temperature detector
- CIP- and SIP-capable

Specifications

pH:	0 ... 14
Temperature:	-4 ... 176°F (-20 ... 80 °C), 275°F (135 °C) hygienic version
Pressure:	0 ... 87 psi (0 ... 6 bar)
Temperature detector:	NTC 30 kohms, PT 1000
Sensor material:	High alkali-resistant glass
Reference system:	Ag/AgCl, liquid electrolyte
Electrolyte:	ZU 0958
Junction:	Ceramic (1 x)
Immersion depth:	120, 250, or 450 mm
Sensor cap:	Memosens or Vario Pin
ATEX Certificate:	II 1G Ex ia IIC T3/T4/T6
FM Approvals (US & C)	Cl. 1 Div. 1, GP ABCD T3/T4/T6 (Memosens Only)

Dimensional Drawing



Product Range		Length	Order No.
SE 557 pH sensor	Memosens	120 mm	SE 557X/1-NMSN
		250 mm	SE 557X/2-NMSN
		450 mm	SE 557X/4-NMSN
SE 557 pH sensor (hygienic)	Memosens	120 mm	SE 557X/1-NMSH
		250 mm	SE 557X/2-NMSH
SE 557 pH sensor	Vario Pin	120 mm	SE 557X/1-NVPN
		250 mm	SE 557X/2-NVPN
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
VP6-ST cable		3 m	ZU 0313
		5 m	ZU 0314
		10 m	ZU 0315
		20 m	ZU 0584
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-P0400/1000
		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
		1000 ml	CS-P1200/1000
pH value 12.00 ± 0.05		3000 ml	CS-P1200/1000
		250 ml	ZU 0958
		250 ml	
Electrolyte — Low temperature, -22°F (-30°C)		250 ml	ZU 0958

*) Greater lengths on request