

Sensors for pH Measurement

MEMO SENS



SE 558 pH Sensor

Sensor for measurement in ultrapure water

Low-maintenance pH sensors with gel reference electrolyte The SE 558 sensor has an integrated temperature detector to allow automatic temperature compensation of the pH signal during calibration and operation. The SE 558 sensor is particularly suitable for use in media of very low conductivity. It provides 3 ceramic junctions and a KCl reservoir.

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
- Low maintenance, no refilling of electrolyte
- Integrated temperature detector
- 3 ceramic junctions
- Independent of flow
- KCl reservoir

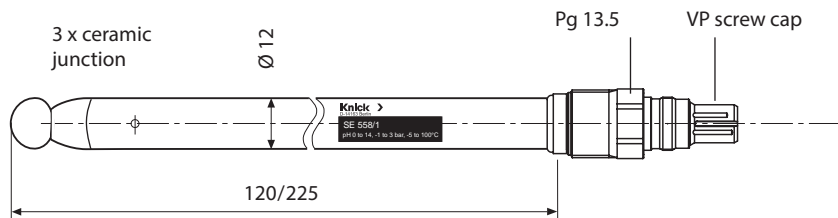
Applications

Boiler feed water, condensate, ultrapure water, water supply and distribution, WFI.

Specifications

pH:	0 ... 14
Temperature:	23 ... 212 °F (-5 ... +100 °C)
Operating Pressure:	Full vacuum ... 43 psi (-1 ... 3 bar)
Design pressure:	Full vacuum ... 180 psi (-1 ... 12 bar)
Temperature detector:	NTC 30 kohms, PT 1000
Sensor material:	Low-impedance standard pH glass, fast response
Reference system:	Ag/AgCl, polymeric electrolyte
Junction:	3 x ceramic
Length:	120 mm / 225 mm
Process connection:	Pg 13.5
Sensor cap:	Memosens or Vario Pin (VP)
FM Approvals (US & C)	Cl. 1 Div. 1, GP ABCD T3/T4/T6 (Memosens Only)

Dimensional Drawing



All dimensions in mm

ETA Process Instrumentation

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Martech Controls

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Product Range		Order No.
SE 558 pH sensor	Memosens	Length 120 mm SE 558/1-NMSN Length 225 mm SE 558/2-NMSN
SE 558 pH sensor	Vario Pin	Length 120 mm SE 558/1-NVPN Length 225 mm SE 558/2-NVPN
Accessories		Order No.
Memosens cable	3 m 5 m 10 m 20 m ^{*)}	CA/MS-003NAA CA/MS-005NAA CA/MS-010NAA CA/MS-020NAA
Memosens cable, Ex	3 m 5 m 10 m 20 m ^{*)}	CA/MS-003XAA CA/MS-005XAA CA/MS-010XAA CA/MS-020XAA
VP6-ST cable	3 m 5 m 10 m 20 m	ZU 0313 ZU 0314 ZU 0315 ZU 0584
Buffer Solutions (20 °C)		Order No.
pH value 2.00 ± 0.02	Quantity 250 ml	CS-P0200/250
pH value 4.00 ± 0.02	250 ml 1000 ml 3000 ml	CS-P0400/250 CS-P0400/1000 CS-P0400/1000
pH value 7.00 ± 0.02	250 ml 1000 ml 3000 ml	CS-P0700/250 CS-P0700/1000 CS-P0700/1000
pH value 9.00 ± 0.02	250 ml 1000 ml 3000 ml	CS-P0900/250 CS-P0900/1000 CS-P0900/1000
pH value 12.00 ± 0.05	250 ml	CS-P1200/250
Equipotential bonding electrode	Platinum; for monitoring the reference system of the pH sensor or for simultaneous ORP measurement	ZU 0073

^{*)} Greater lengths on request