

Sensors for pH Measurement

Chem

Energy

Pharm

Food



SE 551 pH Sensor

For special requirements and high-precision measurements with refillable liquid electrolyte

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.

Also suitable for hazardous locations.

Facts

- High accuracy
- Extensive temperature range
- Refillable liquid electrolyte
- 2 ceramic junctions
- Self cleaning due to pressurization
- Silver ion trap
- Integrated temperature detector
- Steam-sterilizable
- CIP-capable
- VP screw cap

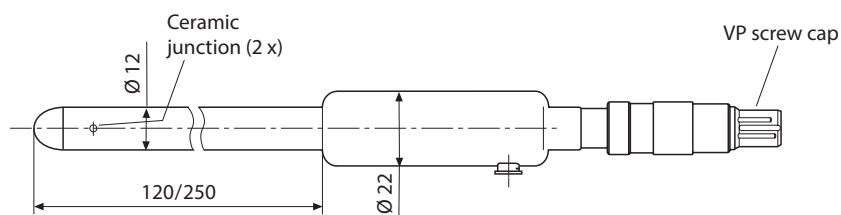
Applications

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

Specifications

pH:	0 ... 14
Temperature:	0 ... 140 °C
Pressure:	-1 to 6 bars
Temperature detector:	Pt 1000
Sensor material:	Highly alkali-resistant glass
Reference system:	Ag/AgCl with silver ion trap, liquid electrolyte
Junction:	Ceramic (2 x)
Immersion depth:	120 mm / 250 mm
Sensor cap:	VP (VarioPin)
ATEX Certificate:	II 1/2G Ex ia IIC T6/T5/T4/T3

Dimension Drawing



All dimensions in mm

Product Range		Order No.
SE 551 pH sensor	Length 120 mm	SE 551/1
	Length 225 mm	SE 551/2
Accessories		Order No.
VP6-ST cable	3 m	ZU 0313
	5 m	ZU 0314
	10 m	ZU 0315
	20 m	ZU 0584
Buffer Solutions (20 °C)		Order No.
pH value 2.00 ± 0.02	250 ml	CS-P0200/250
	250 ml	CS-P0400/250
		1000 ml
pH value 4.00 ± 0.02	3000 ml	CS-P0400/1000
	250 ml	CS-P0700/250
		1000 ml
pH value 7.00 ± 0.02	3000 ml	CS-P0700/1000
	250 ml	CS-P0900/250
		1000 ml
pH value 9.00 ± 0.02	3000 ml	CS-P0900/1000
	250 ml	CS-P1200/250
		1000 ml
pH value 12.00 ± 0.05	3000 ml	CS-P1200/1000
	250 ml	ZU 0591
Electrolyte	250 ml	ZU 0591
Equipotential bonding electrode	Platinum; for monitoring the reference system of the pH sensor or for simultaneous ORP measurement	ZU 0073