



SE 552 pH Sensor

Low-maintenance and precise pH sensor with integrated temperature detector, CIP capable, steam sterilizable and autoclavable, for an extensive range of applications at moderate pressures

Liquid-electrolyte reference system with factory prepressurization. Permanent slight outflow of electrolyte significantly reduces the typical junction problems. Excellent measurement performance under the most diverse process conditions; also for hazardous locations.

Facts

- High accuracy
- Very high temperature range
- Integrated temperature detector
- Self cleaning due to prepressurization
- Silver ion trap
- CIP-capable
- Steam-sterilizable
- Autoclavable
- VP screw cap

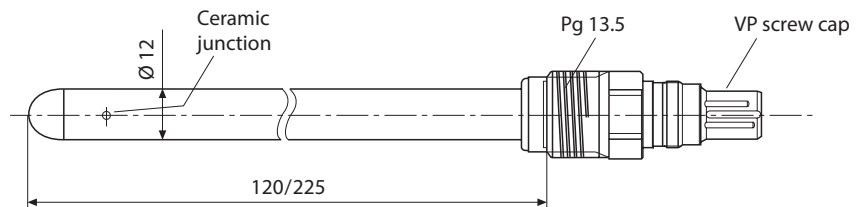
Applications

Chemical, pharmaceutical industry, biotechnology, food and beverage industry, low-conductivity measurements ($>1 \mu\text{S}/\text{cm}$)

Specifications

pH:	0 ... 14
Temperature:	0 ... 100 °C (140 °C for sterilization)
Pressure:	0 ... 4 bars
Temp detector:	Pt 1000
Sensor material:	Highly alkali-resistant glass
Reference system:	Ag/AgCl, prepressurized liquid electrolyte with silver ion trap
Junction:	Ceramic (1 x)
Immersion depth:	120 mm / 225 mm
Process adaptation:	Pg 13.5
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 552 pH sensor	Length 120 mm	SE 552/1
	Length 225 mm	SE 552/2
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	
	250 ml	
		1000 ml
Equipotential bonding electrode	Platinum; for monitoring the reference system of the pH sensor or for simultaneous ORP measurement	ZU 0073