SE 553 pH Sensor

For particularly harsh process conditions; resistant to high pressure and high temperature, resistant to poisoning and contamination

Reliable measurements and long service life in aggressive media, suitable for a wide pressure and temperature range, no poisoning thanks to a pressure-compensated dual-chamber system with long diffusion path. Dirt-repellent PTFE ring junction. Also suitable for hazardous locations.

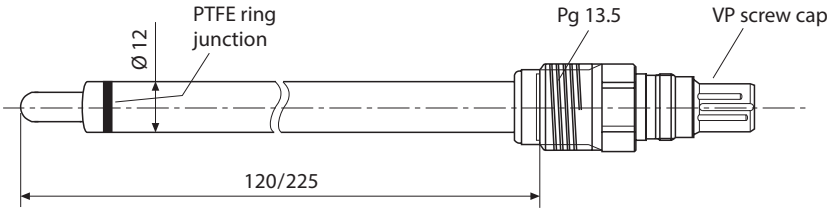
Facts
- Long operation and service life
- Pressure-resistant up to 13 bars at 130 °C
- Integrated temperature detector
- Poison-resistant due to pressure-compensated dual-chamber system
- Dirt-repellent PTFE ring junction
- VP screw cap

Applications
Strongly oxidizing media and media with high concentrations of alkalis or acids, wastewaters containing sulfides, chlorine and bleaching liquors; also for flue gas desulfurization in power plants

Specifications

pH:	0 … 14
Temperature:	-5 … +130 °C
Pressure:	Up to 13 bars
Sensor material:	Highly alkali-resistant glass
Reference system:	Pressure-compensated dual-chamber system, with gel electrolyte, Ag/AgCl system
Junction:	PTFE ring junction
Immersion depth:	120 mm / 225 mm
Process adaptation:	Pg 13.5
Sensor cap:	VP (VarioPin)
ATEX Certificate:	II 1/2G EEx ia IIC T6/T5/T4/T3

Dimension Drawing



All dimensions in mm

Knick

Product Range		Order No.
SE 553 pH sensor	Length 120 mm	SE 553/1
	Length 225 mm	SE 553/2

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)	Quantity	Order No.
pH value 2.00 ± 0.02	250 ml	CS-P0200/250
pH value 4.00 ± 0.02	250 ml	CS-P0400/250
	1000 ml	CS-P0400/1000
	3000 ml	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

Equipotential bonding electrode	Platinum; for monitoring the reference system of the pH sensor or for simultaneous ORP measurement	ZU 0073