

# Sensors for pH Measurement

Chem

Energy

Water



## SE 554 pH Sensor

Low-maintenance sensor for demanding process application in the chemical industry

High accuracy, stability, rapidness, and a long life cycle are achieved by the special design. Through 2 open junctions, the reference system is in direct contact with the measured medium. There is hardly any risk of contamination or blocking of the junction. The high content and special distribution of potassium chloride in the polymer reduces measurement disturbances which could be caused by liquid junction potentials.

### Facts

- Low maintenance, no refilling of electrolyte
- Integrated temperature detector
- Open junctions, no blocking
- Alpha glass, medium impedance, universal glass, fluoride resistant

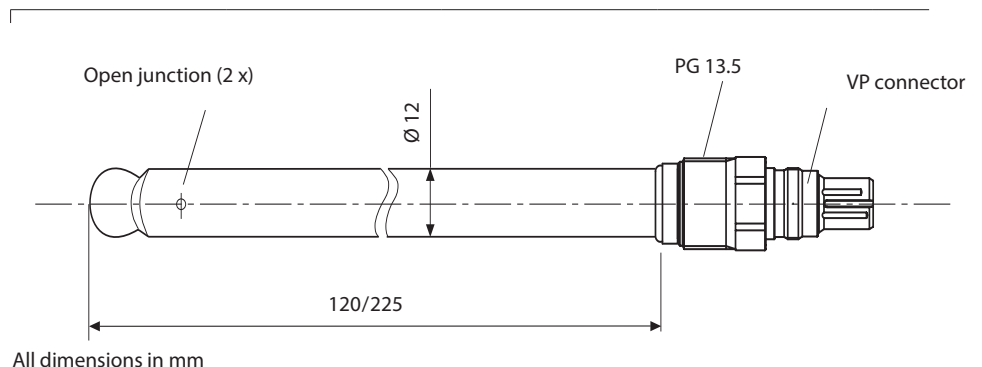
### Applications

Industrial applications, dyes, precipitation reactions, polluted media

### Specifications

pH:	0 ... 14
Temperature:	0 ... 130 °C
Pressure, relative:	0 ... 10 bar
Temperature detector:	Pt1000
Sensor material:	Alpha glass
Reference system:	Ag/AgCl, polymeric electrolyte
Junction:	Hole (2 x)
Length:	120 mm / 225 mm
Process adaptation:	PG 13.5
Sensor connector:	VP (VarioPin)
ATEX marking:	II 1/2 G Ex ia IIC T3/T4/T6 Ga/Gb

### Dimension Drawing



<b>Product Range</b>	<b>Length</b>	<b>Order No.</b>
SE 554 pH sensor	120 mm	SE 554X/1-NVPN
	225 mm	SE 554X/2-NVPN
<b>Accessories</b>		
VP6-ST cable	3 m	CA/VP6ST-003A
	5 m	CA/VP6ST-005A
	10 m	CA/VP6ST-010A
	20 m	CA/VP6ST-020A
<b>CaliMat Buffer Solutions (20 °C)</b>		
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-P0400/3000
	250 ml	CS-P0700/250
	1000 ml	CS-P0700/1000
pH value 7.00 ± 0.02	3000 ml	CS-P0700/3000
	250 ml	CS-P0900/250
	1000 ml	CS-P0900/1000
pH value 9.00 ± 0.02	3000 ml	CS-P0900/3000
	250 ml	CS-P1200/250
	1000 ml	CS-P1200/1000
pH value 12.00 ± 0.05	3000 ml	CS-P1200/3000
	250 ml	CS-P1200/250
Equipotential bonding electrode	Platinum; for monitoring the reference system of the pH sensor	ZU 0073