

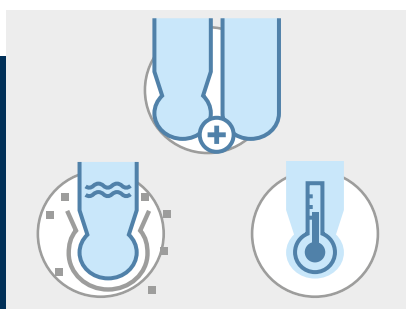
# SE554

## Low-Maintenance pH/ORP Sensor for Simultaneous Measurement in Demanding Chemical Industry Processes



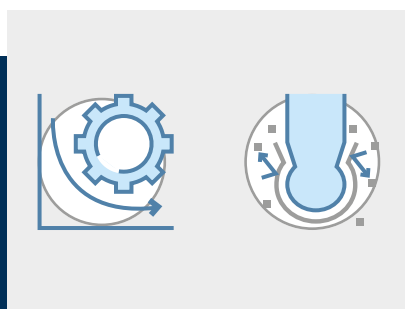
**Measurements at extreme ionic strengths, such as in brine and highly oxidizing, acidic or alkaline media**

The special design allows for high accuracy, stability and durability. The reference system is in direct contact with the measured medium via two open connections, which minimizes the risk of a junction becoming blocked when there are solids in the medium. The high potassium chloride content and its distribution in the solid electrolyte reduce interference from diffusion potentials at the junction. The sensor with the advanced Memosens II technology by Knick is designed for higher ambient temperatures.



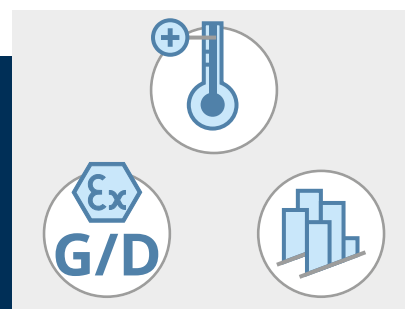
### Reliable Measurement Technology

- Simultaneous measurement of pH and ORP value possible
- Solid electrolyte
- Integrated temperature detector



### Low-Maintenance Design

- Low maintenance, no electrolyte refilling
- 2 open hole junctions, no blockage due to solids in the medium



### Memosens II by Knick

- Ambient temperature up to 100 °C
- Ex approval for gas and dust
- Diagnostics with load matrix and statistics on transmitters with graphical display

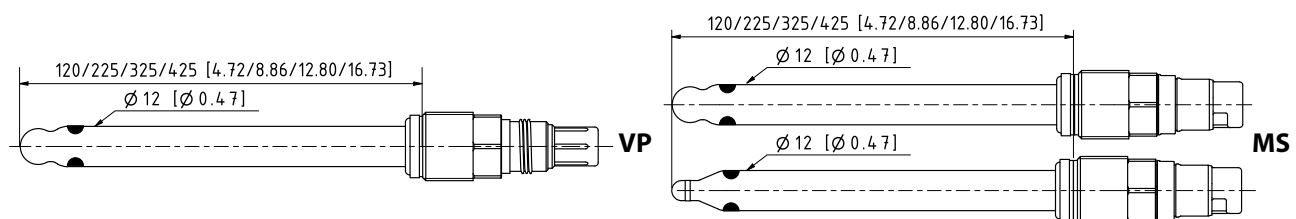
### Specifications (Excerpt)

Excerpt from the user manual. Detailed information → [knick-international.com](http://knick-international.com)

<b>Measuring range</b>	
pH	0 ... 14
ORP	±1500 mV
<b>Process temperature</b>	
0 ... 130 °C (32 ... 266 °F)	
<b>Relative process pressure</b>	
0 ... 10 bar (0 ... 145 psi)	
<b>Temperature detector</b>	
SE554X/*-MSN-**	NTC 30 kΩ
SE554X/*-NVPN	Pt1000
<b>Wetted materials</b>	
Body	Glass
Junction	2 × hole
Electrode (ORP)	Platinum
Sensor tip	Alpha glass
<b>Reference system</b>	
Ag/AgCl/Cl <sup>-</sup> solid electrolyte	
<b>Process connection</b>	
PG 13.5	
<b>Tightening torque</b>	
1 ... 3 Nm	
<b>Electrical connection</b>	
SE554X/*-MSN-**	Memosens connector
SE554X/*-NVPN	VarioPin connector
<b>Dimensions</b>	
See the dimension drawing	

### Dimension Drawing

**Note:** All dimensions are listed in millimeters [inches].



**Knick**  
**Elektronische Messgeräte**  
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Subject to change.