

## Pressure / Fill Level Sensor PCE-SLS 20



Stainless Steel Immersion Pressure / fill level sensor with ceramic membrane  $4 \dots 20 \text{ mA} / 0 \dots 10 \text{ V}$  output / Up to 200 mH2O measurable /  $\pm 0.35\%$  accuracy

The stainless steel immersion probe is suitable for measuring the level in the process. The immersion probe is particularly suitable for level measurement of waste water, contaminated or highly viscous media. The stainless steel immersion probe uses a capacitive ceramic measuring cell and determines the fill level in containers via the pressure. Due to the high accuracy of  $\pm$  0.35% of the measuring range, the stainless steel immersion probe is also suitable for low filling levels. The measuring range of the stainless steel immersion probe extends from 0 ... 0.4 mH2O to 0 ... 200 mH2O. This corresponds to a pressure of 40 mbar to 20 bar. The stainless steel immersion probe outputs the measured value as an analog signal, depending on the variant, in 4 ... 20 mA or 0 ... 10 V. This means that the level sensor can be connected to almost any process evaluation device.

- ▶ Nominal pressures up to 200 mH2O
- ► Accuracy ± 0.35% of the measuring range
- 39.5 mm diameter
- Suitable for drinking water production
- Ceramic sensor
- ▶ Suitable for dirty and viscous media
- ▶ Different configurations possible

## **Specifications**

Accuracy (selectable)

Filling level	Overload
0 0.4 mH2O	2 Bar
0 0.6 mH2O	2 Bar
0 1 mH2O	4 Bar
0 1.6 mH2O	4 Bar
0 2.5 mH2O	6 Bar
0 4 mH2O	6 Bar
0 6 mH2O	8 Bar
0 10 mH2O	8 Bar
0 16 mH2O	15 Bar
0 25 mH2O	25 Bar
0 40 mH2O	25 Bar
0 60 mH2O	35 Bar
0 100 mH2O	35 Bar
0 160 mH2O	45 Bar
0 200 mH2O	45 Bar
	0 0.4 mH2O 0 0.6 mH2O 0 1 mH2O 0 1.6 mH2O 0 2.5 mH2O 0 4 mH2O 0 6 mH2O 0 10 mH2O 0 16 mH2O 0 10 mH2O 0 25 mH2O 0 25 mH2O 0 40 mH2O 0 40 mH2O 0 100 mH2O 0 100 mH2O 0 160 mH2O

## More information

More product info



Similar products



Accuracy (selectable)	$\leq$ ±0.25 % of rdg. (option)
Output signal (selectable)	4 20 mA (2-wire)
	0 10 V (3-wire)
Load	$R_{max} = [(UB - UB min) / 0.02 A] \Omega$
Influence effects	auxiliary power: 0.05 % FSO / 10 V
	load: 0.05 % FSO / $k\Omega$
Long-term stability	$\leq$ ± 0.1 % FSO / year under reference
	conditions
Switch-on time	700 ms
Mean response time	≤ 200 ms
Maximum response time	380 ms
Measuring rate	5 Hz
Temperature error	$\leq$ ± 1 % of rdg. (-20 80 °C)
Short-circuit strength	permanent
Reverse polarity protection	no damage, but also no function
Lightning protection	2-wire: integrated
	3-wire: none
	PVC ( -5 70 °C) grey Ø 7.4 mm

 $\leq$  ±0.35 % of rdg. (standard)

Shielded cable with integrated air hose as a reference for the surrounding air pressure.

Free-hanging immersion probes with FEP cables should not be used if effects from highly charging processes are to be expected.

Housing stainless steel 1.4404

Subject to change

Connection cable (selectable)

PUR (-25 ... 70 °C) black Ø 7.4 mm

FEP 4 (-25 ... 70 °C) black Ø 7.4 mm TPE-U (-25 ... 125 °C) blue Ø 7.4 mm

FKM Seals (selectable) **EPDM** FFKM

Separating membrane ceramic Al2O3 96 % (selectable) ceramic Al2O399.9 %

Max. current consumption 21 mA

water

Media sewage

fuels and oils

drinking water production sewage treatment plants

water treatment

Areas of application level monitoring in open containers

> fuel storage tank batteries biogas plants

Operating conditions -25 ... 125 °C -40 ... 40 °C Lab conditions

Dimensions Ø 39.5 mm x 124 mm Weight ca. 400 g (without cable)