

Pressure / Fill Level Sensor PCE-SLS 10



**Pressure / fill level sensor with ceramic membrane / Sensor and cable can be separated /
4 ... 20 mA or 0 ... 10 V output / Up to 100 mH₂O measurable / $\pm 0.35\%$ accuracy**

The level sensor is based on a ceramic measuring cell. This level sensor was developed for the measurement of levels in waste water, polluted and highly viscous media. As a special feature of this level sensor, the probe and cable part can be separated from one another. As a result, maintenance or assembly work on the sensor can be quickly replaced. The fill level sensor has a removable protective cap to protect the sensor membrane. Depending on the model, the measuring range of the level sensor extends from 0 ... 40 cmH₂O to 0 ... 100 mH₂O. The level sensor outputs the measured level as an analog signal. This signal can be processed by process displays, PLCs or data loggers.

- ▶ Nominal pressures **up to 100 mH₂O**
- ▶ Accuracy $\pm 0.35\%$ of the measuring range
- ▶ **39.5 mm diameter**
- ▶ Cable and probe can be separated
- ▶ Suitable for sewage, fuels and water
- ▶ Ceramic sensor
- ▶ Can be used for dirty and viscous media
- ▶ Different configurations possible

Specifications

Nominal pressure	Filling level	Overload
0.04 Bar	0 ... 0.4 mH ₂ O	2 Bar
0.06 Bar	0 ... 0.6 mH ₂ O	2 Bar
0.1 Bar	0 ... 1 mH ₂ O	4 Bar
0.16 Bar	0 ... 1.6 mH ₂ O	4 Bar
0.25 Bar	0 ... 2.5 mH ₂ O	6 Bar
0.4 Bar	0 ... 4 mH ₂ O	6 Bar
0.6 Bar	0 ... 6 mH ₂ O	8 Bar
1 Bar	0 ... 10 mH ₂ O	8 Bar
1.6 Bar	0 ... 16 mH ₂ O	15 Bar
2.5 Bar	0 ... 25 mH ₂ O	25 Bar
4 Bar	0 ... 40 mH ₂ O	25 Bar
6 Bar	0 ... 60 mH ₂ O	35 Bar
10 Bar	0 ... 100 mH ₂ O	35 Bar

Accuracy (selectable)	$\leq \pm 0.35 \%$ of rdg. (standard) $\leq \pm 0.25 \%$ of rdg. (option)
Output signal (selectable)	4 ... 20 mA (2-wire) 0 ... 10 V (3-wire)
Load	$R_{\max} = [(U_B - U_{B \min}) / 0.02 \text{ A}] \Omega$
Influence effects	auxiliary power: 0.05 % FSO / 10 V load: 0.05 % FSO / k Ω
Long-term stability	$\leq \pm 0.1 \%$ FSO / year under reference conditions
Switch-on time	700 ms
Mean response time	$\leq 200 \text{ ms}$
Maximum response time	380 ms
Measuring rate	5 Hz
Temperature error	$\leq \pm 1 \%$ 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
Connection cable (selectable)	PVC (-5 ... 70 °C) grey Ø 7.4 mm 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
Housing	stainless steel 1.4404
Seals (selectable)	FKM EPDM
Separating membrane (selectable)	ceramic Al ₂ O ₃ 96 % ceramic Al ₂ O ₃ 99.9 %
Max. current consumption	21 mA
Media	water sewage fuels and oils

More information

More product info



Similar products



Subject to change



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Areas of application	groundwater level measurement
	rain overflow basin measurement
	sewage treatment plants
	water treatment
	level monitoring in open containers
Operating conditions	fuel storage
	tank batteries
	biogas plants
	-25 ... 125 °C
	-40 ... 40 °C
Lab conditions	
Dimensions	Ø 39.5 mm x 178.5 mm
Weight	ca. 650 g (without cable)

Subject to change

