

# Hygienic pressure sensor for high temperatures



## Hygienic pressure sensor with diaphragm seal for high temperature applications

- Pressure monitoring in the temperature range from -25 to 200° C
- Integrated 1.5" clamp diaphragm seal with stainless steel membrane
- All wetted parts made of stainless steel.
- Programmable analogue output in 2-wire operation and display
- 11-point factory calibration certificate and 3.1 inspection certificate (according to EN 10204)



### Application

The PI22 series pressure sensors are designed for high-temperature applications as can among others be found in UHT plants (ultra high temperature).

### Flexible: 2, 3 or 4 wires

The pressure sensors with clearly visible LED display can not only be connected as 3- or 4-wire units but also as loop-powered 2-wire units. This reduces the wiring complexity in new installations and facilitates exchange in existing 2-wire connections.

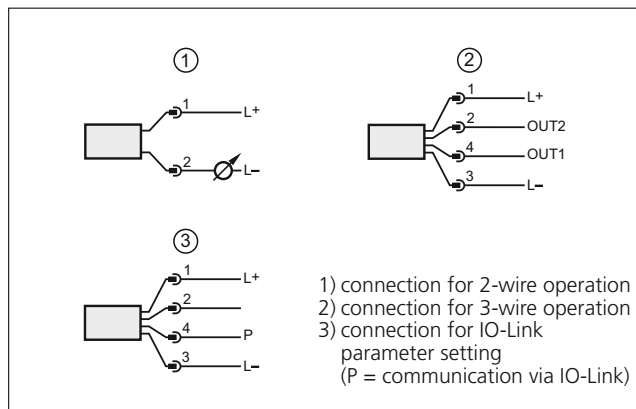
### Parameter setting

The parameters can either be set via the buttons on the sensor or via IO-Link interface: via USB IO-Link master, plc or memory plug.







Relative pressure measuring range [bar]	Poverload max. [bar]	Analogue start point [bar]	Analogue end point [bar]	Set point SP1 [bar]	Reset point rP1 [bar]	Step increment [bar]	Order no.
<b>Output function switching output PNP/NPN programmable + analogue output programmable</b>							
-1...25	80	-1.00...18.74	5.24...25.00	-0.96...25.00	-1.00...24.96	0.02	<b>PI2203</b>
-1...10	50	-1.0...7.5	1.5...10.00	-0.98...10.00	-1.00...9.98	0.01	<b>PI2204</b>
-1...4	30	-1.00...3.00	0.00...4.00	-0.990...4.000	-1.000...3.990	0.005	<b>PI2205</b>
-0.124...2.5	20	-0.124...1.880	0.500...2.500	-0.120...2.500	-0.124...2.496	0.002	<b>PI2206</b>
-0.05...1	10	-0.05...0.75	0.2...1.00	-0.048...1.00	-0.05...0.998	0.001	<b>PI2207</b>
-1...1	10	-1...0.5	-0.5...1	-0.998...1	-1...0.998	0.001	<b>PI2209</b>

## Wiring diagram







## Accessories

Type	Description	Order no.
	Memory plug, parameter memory for IO-Link sensors	<b>E30398</b>
	IO-Link interface, current consumption from USB port	<b>E30396</b>
	FDT framework software for parameter setting and analysis of units with DTM specification	<b>E30110</b>
	LINERECORDER SENSOR, software for parameter setting and set-up of IO-Link sensors	<b>ZGS210</b>

## Further technical data

Operating voltage	[V DC]	20...32 (2-wire), 18...32 (3-wire)
Current rating	[mA]	250 (3-wire)
Current consumption	[mA]	3.6...21 (2-wire), < 45 (3-wire)
IO-Link Device type of transmission		COM2 (38.4 kbaud), IO-Link 1.0
<b>Accuracy / deviation (in % of the span) turn down 1:1</b>		
Deviation of the switch point		< ± 0.2
Linearity error		< ± 0.2
Linearity		< ± 0.15
Hysteresis		< ± 0.15
Repeatability		< ± 0.1
Long-term stability		< ± 0.1
<b>Temperature coefficients (TEMPCO) in the temperature range 0...70°C (in % of the span per 10 K)</b>		
Greatest TEMP CO of zero		< ± 0.05
Greatest TEMP CO of the span		< ± 0.15
Medium temperature	[°C]	-25...200
Ambient temperature	[°C]	-25...80 (< 160 °C), -25...60 (< 200 °C)
Protection		IP 68 / IP 69K
Wetted parts		stainless steel (1.4435 / 316L)

## Connection technology

Type	Description	Order no.
	Socket, M12, 4-pole, 5 m orange, PVC cable	<b>EVT001</b>
	Socket, M12, 4-pole, 2 m orange, PVC cable	<b>EVT064</b>
	Socket, M12, 4-pole, 5 m orange, PVC cable	<b>EVT004</b>
	Socket, M12, 4-pole, 2 m orange, PVC cable	<b>EVT067</b>