

Pressure sensors

PR 15

Measuring sensor for mobile and stationary use, recommended for the Hydrotechnik measuring instruments of series Multi-System.



- Measuring principle: piezo-resistive (silicium chip embedded in silicone oil and welded in high-grade steel casing)
- Accuracy: $\pm 0,2$ % of final value
- Readiness for operation: < 1 s
- Noise performance: $< \pm 0,02$ % of final value
- Response time: < 1 ms
- Long-term stability: $\pm 0,1$ % of final value per year
- Over-pressure: 1,5 times nominal pressure
- Burst pressure: 3 times nominal pressure
- Signal output: 0 to 20 mA
- Staggered measuring ranges:
-1 to 600 bar (-0,1 to 60 MPa)
- Working temperature range: -40 °C to $+120$ °C
- Medium temperature: -40 °C to $+130$ °C
- Housing material: Stainless steel

HT-PD

Industrial sensor for the mobile and stationary use.



- Measuring principle: piezo-resistive (polykristalline silicon strain gauge on a stainless steel diaphragm)
- Accuracy: $\pm 0,25$ % of final value
- Readiness for operation: > 10 s
- Noise performance: $< \pm 0,2$ % of final value
- Response time: 1 ms
- Long-term stability: $\pm 0,1$ % of final value per year
- Over-pressure: 1,5 times nominal pressure
- Burst pressure: 3 times nominal pressure
- Signal output: 0 to 20 mA
- Staggered measuring ranges:
-1 to 600 bar (-0,1 to 60 MPa)
- Working temperature range: -40 °C to $+100$ °C
- Medium temperature: -40 °C to $+130$ °C
- Gehäusewerkstoff: rostfreier Edelstahl

Pressure and temperature sensors

Dual sensor

Industrial sensor for mobile and stationary use. Recording of pressure and temperature at one measuring point.



- Accuracy pressure: $\pm 0,5$ % of final value
- Over-pressure: 1,5 times nominal pressure
- Burst pressure: 3 times nominal pressure
- Signal output: 4 to 20 mA (for both channels)
- Measuring range: 0 to 60 bar or 0 to 600 bar
(0 to 6 MPa or 0 to 60 MPa)
- Working temperature range: -40 °C to $+100$ °C
- Medium temperature: -40 °C to $+130$ °C
- Temperature sensor: Pt 100 (Platinum measurement resistor acc. to DIN 43760, class B)
- Temperature measuring range: -50 °C to $+200$ °C
- Accuracy temperature: ± 1 % of final value

Order data sensors

Pressure sensors PR 15



Measuring range	Output signal	Order number
-1 to 6 bar (-0.1 to 0,6 MPa)	0 to 20 mA	3403-32-S-71.33A
0 to 60 bar (0 to 6 MPa)		3403-21-S-71.33A
0 to 200 bar (0 to 20 MPa)		3403-10-S-71.33A
0 to 400 bar (0 to 40 MPa)		3403-15-S-71.33A
0 to 600 bar (0 to 60 MPa)		3403-18-S-71.33A

Other output signals on request.

Pressure sensors HT-PD



Measuring range	Output signal	Order number
-1 to 6 bar (-0,1 to 0,6 MPa)	0 to 20 mA	3403-32-S-E5.33
0 to 60 bar (0 to 6 MPa)		3403-21-S-E5.33
0 to 200 bar (0 to 20 MPa)		3403-10-S-E5.33
0 to 400 bar (0 to 40 MPa)		3403-15-S-E5.33
0 to 600 bar (0 to 60 MPa)		3403-18-S-E5.33

Order data sensors

Pressure sensors HT-PD without ISDS



Measuring range	Output signal	Order number
-1 to 6 bar (-0,1 to 0,6 MPa)	0 to 20 mA without ISDS	3403-32-C3.33
0 to 60 bar (0 to 6 MPa)		3403-21-C3.33
0 to 200 bar (0 to 20 MPa)		3403-10-C3.33
0 to 400 bar (0 to 40 MPa)		3403-15-C3.33
0 to 600 bar (0 to 60 MPa)		3403-18-C3.33

Other output signals on request.

Recommended for panel mounted instruments series SEG 1060 and series Compare.

Pressure sensors HT-PD only suitable for Multi-Handy 2020



Measuring range	Output signal	Order number
-1 to 6 bar (-0,1 to 0,6 MPa)	4 to 20 mA	3403-32-S-N4.37
0 to 60 bar (0 to 6 MPa)		3403-21-S-N4.37
0 to 200 bar (0 to 20 MPa)		3403-10-S-N4.37
0 to 400 bar (0 to 40 MPa)		3403-15-S-N4.37
0 to 600 bar (0 to 60 MPa)		3403-18-S-N4.37

Only available as ISDS pressure sensor.

All sensors are also available without ISDS.

Dual sensor pressure and temperature



Measuring ranges pressure and temperature	Output signal	Order number
0 to 60 bar (0 to 6 MPa) -50 °C to +200 °C	4 to 20 mA	3763-04-34.00
0 to 600 bar (0 to 60 MPa) -50 °C to +200 °C	4 to 20 mA	3763-03-34.00