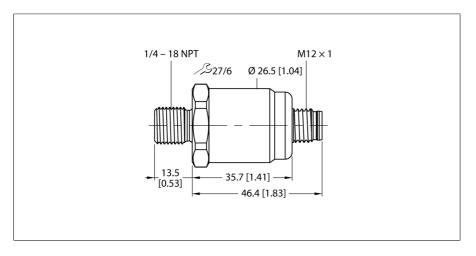


Pressure Transmitter With Current Output (2-Wire) PT0.1R-1503-I2-H1143/D840





- PT0.1R-1503-I2-H1143/D840 Type
- 100004656
- Pressure range

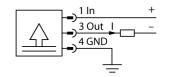
Long-term stability	0.25 % FS, Acc. to IEC EN 60770-1
Horizontal position error	+ 0.1 mbar
Vertical position error, pressure connection at top	+ 0.2 mbar
Adjustment position	Vertical, pressure connection at bottom
Response time	< 150 ms
Burst pressure	≥ 2 bar
Permissible vacuum	-0.3 bar
Admissible overpressure	≤ 2 bar
	00.01 MPa
	01.45 psi
Pressure range	00.1 bar
Pressure type	Relative pressure

Power supply	
Operating voltage	1030 VDC
Current consumption	≤ 23 mA
Short-circuit/reverse polarity protection	yes / yes
Protection type and class	IP67 / III
Insulation voltage	500 VDC

Outputs	
Output 1	Analog output
Analog output	
Current output	420 mA
Load	\leq (Supply voltage -10)/20 k Ω
Resolution	<± 0.1 % FS
Accuracy LHR	±0.35 % FS (FS < 100 mbar ±0.7 % FS)
Temperature behaviour	
Medium temperature	-15+85 °C
Temperature coefficient span TkS	± 0.07 % FS/10 K

- Ceramic measuring cell
- Extremely high measuring accuracy
- Compact and robust design
- Excellent temperature behavior
- Pressure range 0...100 mbar rel.
- 10...30 VDC
- Analog output 4...20 mA
- Process connection 1/4"-18 NPT male thread
- Plug-in device, M12 × 1

Wiring Diagram





Functional principle

The pressure sensors in the PT...-1500 product series operate with a ceramic measuring cell in various micropressure ranges of up to -100...600 mbar in 2- or 3-wire technology. Depending on the sensor variant, the processed signal is available as an analog output signal (4...20 mA, 0...10 V, 0...5 V, ratiomet-

In addition to the standard variants, there are special sensors for uses such as ATEX areas.



Environmental conditions	
Ambient temperature	-25+85 °C
Storage temperature	-40+85 °C
Vibration resistance	20 g, 152000 Hz, 1525 Hz with amplitude ±
	15 mm, 1 octave/minute in all 3 directions, 50 con-
	tinuous loads, according to IEC 68-2-6
Shock resistance	50 g, 6 ms, half sinusoidal curve, all 6 directions,
	free fall from 1 m onto concrete (6x) acc. to IEC
	68-2-27
Mechanical data	
Housing material	Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyary-
	lamide 50 % GF UL 94 V-0
Pressure connection material	Stainless steel 1.4404 (AISI 316L)
Pressure transducer material	Ceramic AI□O□
Sealing material	FPM
Process connection	1/4" NPT-18 male thread
Wrench size pressure connection / coupling nut	27
Electrical connection	Connector, M12 × 1
Max. tightening torque of housing nut	27 Nm
Reference conditions acc. to IEC 61298-1	
Temperature	15+25 °C
Atmospheric pressure	8001060 hPa abs.
Humidity	45 % rel.
Auxiliary power	24 VDC
Tests/approvals	
Approvals	cULus
UL registration number	E302799
MTTF	965 years acc. to SN 29500 (Ed. 99) 40 °C

A wide range of process connections and electrical connections offer a high degree of flexibility in a wide range of applications.