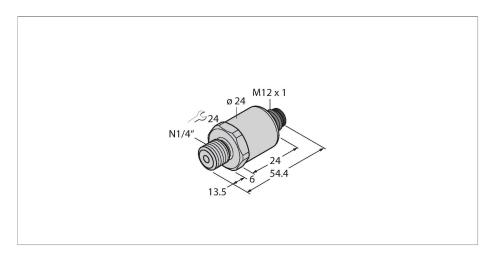


PT0.25R-1003-I2-H1143 Pressure Transmitter - With Current Output (2-Wire)

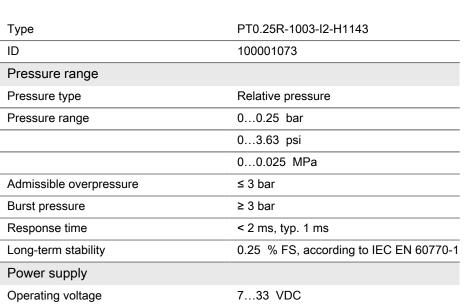


Technical data

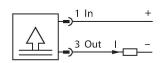
Features

- Ceramic measuring cell
- Compact and robust design
- Excellent EMC properties
- Pressure range 0...0.25 bar rel.
- ■7...33 VDC
- ■Analog output 4...20 mA
- Process connection 1/4"-18 NPT male
- ■Plug-in device, M12 × 1

Wiring diagram



O	
Pressure type	Relative pressure
Pressure range	00.25 bar
	03.63 psi
	00.025 MPa
Admissible overpressure	≤ 3 bar
Burst pressure	≥ 3 bar
Response time	< 2 ms, typ. 1 ms
Long-term stability	0.25 % FS, according to IEC EN 60770-1
Power supply	
Operating voltage	733 VDC
Current consumption	≤ 23 mA
Short-circuit/reverse polarity protection	yes / yes
Protection type and class	IP67 / III
Insulation voltage	750 VDC
Outputs	
Output 1	Analog output
Output function	Analog output current
Analog output	
Current output	420 mA
Load	≤ (Supply voltage -7)/20 kΩ
Resolution	<± 0.1 % FS
Accuracy LHR	± 1.2 % FS BSL





Functional principle

The pressure sensors in the PT...-1000 product series operate with a ceramic measuring cell in various pressure ranges of up to -1...60 bar in 2-, 3- or even 4-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, 1... 6 V, ratiometric) or as a digital IO-Link process parameter. The IO-Link sensor variants also have two independently configurable switching

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

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



Technical data

MTTF	1189 years acc. to SN 29500 (Ed. 99) 40 °C
UL registration number	E302799
Approvals	cULus
Tests/approvals	
Auxiliary power	24 VDC
Humidity	4575 % rel.
Atmospheric pressure	8601060 hPa abs.
Temperature	15+25 °C
Reference conditions acc. to IEC 61298-1	
Max. tightening torque of housing nut	20 Nm
Electrical connection	Connector, M12 × 1
Wrench size pressure connection / coupling nut	24
Process connection	1/4" NPT-18 male thread
Sealing material	FPM spez.
Pressure transducer material	Ceramic Al₂O₃
Pressure connection material	Stainless steel 1.4404 (AISI 316L)
Mechanical data Housing material	Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0
Machanical data	crete (6x) acc. to IEC 68-2-27
Shock resistance	100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto con-
Vibration resistance	20 g, 152000 Hz, 1525 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6
Storage temperature	-50+100 °C
Ambient temperature	-30+85 °C
Environmental conditions	
Temperature coefficient	± 0.2 % of full scale/10 K
Medium temperature	-40+125 °C