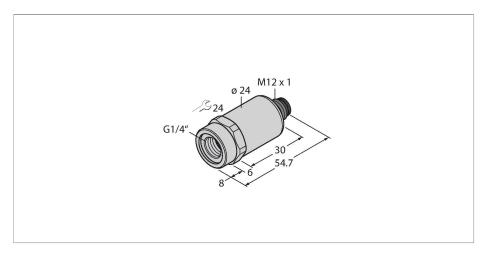


PT40R-2001-I2-H1141/X Pressure Transmitter – With Current Output (2-Wire)





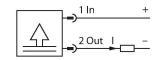
Туре	PT40R-2001-I2-H1141/X
ID	6837580
Pressure range	
Pressure type	Relative pressure
Pressure range	040 bar
	0580.15 psi
	04 MPa
Admissible overpressure	≤ 120 bar
Burst pressure	≥ 240 bar
Response time	< 2 ms, typ. 1 ms
Long-term stability	0.25 % FS, according to IEC EN 60770-1
Power supply	
Operating 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	±0.3 % FS (typical; max. ±0.5 % FS)



Features

- ■Fully welded metal measuring cell
- Pressure range 0...40 bar rel.
- ■Pressure peak orifice
- ■7...33 VDC
- ■Analog output 4...20 mA
- Process connection G1/4" female thread, front sealing
- Connector device, M12 × 1

Wiring diagram





Functional principle

The pressure sensors in the PT...-2000 product series operate with a fully welded metal measuring cell in various pressure ranges of up to -1...1000 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 outputs. In addition to the standard variants, there are special sensors for uses such as ATEX areas or for oxygen applications.



Technical data

Temperature behaviour -40...+135 °C Medium temperature Temperature coefficient ± 0.2 % of full scale/10 K **Environmental conditions** Ambient temperature -30...+85 °C -50...+100 °C Storage temperature 20 g, 15...2000 Hz, 15...25 Hz with am-Vibration resistance plitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6 Shock resistance 100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27 Mechanical data Stainless-steel/Plastic, 1.4404 (AISI Housing material 316L)/polyarylamide 50 % GF UL 94 V-0 Pressure connection material Stainless steel 1.4404 (AISI 316L) Pressure transducer material Stainless steel 1.4016 (AISI 430) Process connection G 1/4" female thread (front sealing) Wrench size pressure connection / coupling nut Electrical connection Connector, M12 × 1 Max. tightening torque of housing nut 20 Nm Reference conditions acc. to IEC 61298-1 15...+25 °C Temperature 860...1060 hPa abs. Atmospheric pressure Humidity 45...75 % rel. 24 VDC Auxiliary power Tests/approvals cULus Approvals UL registration number E302799 **MTTF** 1189 years acc. to SN 29500 (Ed. 99) 40 Included in delivery FKM O-ring special (1 pc)

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