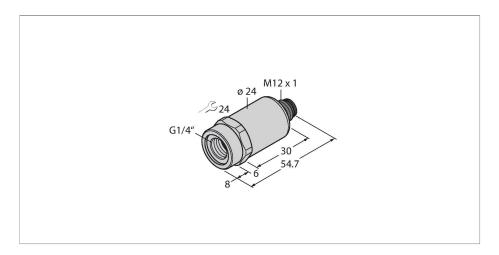


PT10R-2001-U1-H1143/X Pressure Transmitter – With Voltage Output (3-Wire)



Purck .

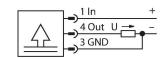
Technical data

Туре	PT10R-2001-U1-H1143/X		
ID	6836295		
Pressure type	Relative pressure		
Pressure range	010 bar		
	0145.04 psi		
	01 MPa		
Admissible overpressure	≤ 30 bar		
Burst pressure	≥ 60 bar		
Response time	< 2 ms, typ. 1 ms		
Long-term stability	0.25 % FS, according to IEC EN 60770-1		
Power supply			
Operating voltage U _B	1233 VDC		
Current consumption	≤7 mA		
Short-circuit/reverse polarity protection	yes / yes		
Protection class	IP67		
Insulation class	III		
Insulation voltage	750 VDC		
Outputs			
Output 1	Analog output		
Output function	Analog output voltage		
Analog output			
Voltage output	010 V		
Load	≤ 100 nF/> 10 kΩ		
Resolution	<± 0.1 % FS		
Accuracy LHR	±0.3 % FS (typical; max. ±0.5 % FS)		

Features

- ■Fully welded metal measuring cell
- Pressure range 0...10 bar rel.
- ■Pressure peak orifice
- ■12...33 VDC
- ■Analog output 0...10 V
- 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 Housing material Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0 Pressure connection material Stainless steel 1.4404 (AISI 316L) Material pressure transducer 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** 1238 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.

Accessories

Dimension drawing	Туре	ID	
	RKC4.4T-2/TXL	6625503	Connection cable, M12 female
			connector, straight, 4-pin, cable leng



connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval



