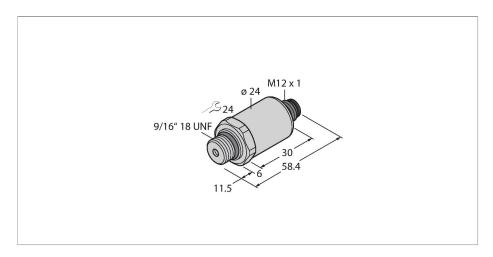


PT250R-2021-I2-H1143/X Pressure Transmitter – With Current Output (2-Wire)



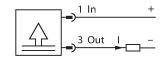
Technical data

Туре	PT250R-2021-I2-H1143/X		
ID	100001209		
Pressure type	Relative pressure		
Pressure range	0250 bar		
	03625.94 psi		
	025 MPa		
Admissible overpressure	≤ 750 bar		
Burst pressure	≥ 1500 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	733 VDC		
Current consumption	≤ 23 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 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...250 bar rel.
- ■Pressure peak orifice
- ■7...33 VDC
- ■Analog output 4...20 mA
- Process connection 9/16"-18 UNF (SAE) male thread
- ■Plug-in 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

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

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 1.4435 (AISI 316L)
Process connection	9/16"-18 UNF male thread
Wrench size pressure connection / coupling nut	24
Electrical connection	Connector, M12 × 1
Max. tightening torque of housing nut	20 Nm
Reference conditions acc. to IEC 61298-1	
Temperature	15+25 °C
Atmospheric pressure	8601060 hPa abs.
Humidity	4575 % rel.
Auxiliary power	24 VDC
Tests/approvals	
Approvals	cULus
UL registration number	E302799
MTTF	1189 years acc. to SN 29500 (Ed. 99) 40 °C

Accessories

Dimension drawing	Туре	ID	
	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus



approval



Dimension drawing	Туре	ID	
0 15 M12 x 1 26.5 32 32	WKC4.4T-2/TXL	6625515	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
0 15 M12x1 26.5 14	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
M12 x 1 0 15 14	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval