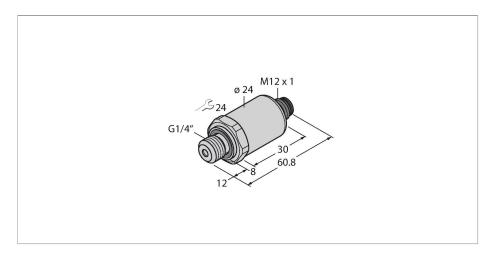


PT10R-2004-U1-H1143 Pressure Transmitter – With Voltage Output (3-Wire)



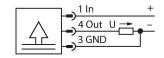
Technical data

Туре	PT10R-2004-U1-H1143		
ID	6836296		
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.
- ■12...33 VDC
- ■Analog output 0...10 V
- Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring
- 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.

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



Technical data

Temperature coefficient ± 0 Environmental conditions Ambient temperature -30	+135 °C .2 % of full scale/10 K +85 °C		
Environmental conditions Ambient temperature -30)+85 °C		
Ambient temperature -30			
	+100 °C		
Storage temperature -50	-50+100 °C		
plite dire	g, 152000 Hz, 1525 Hz with amude ± 15 mm, 1 octave/minute in all 3 ections, 50 continuous loads, acc. to C 68-2-6		
6 d	0 g, 11 ms, half sinusoidal curve, all irections, free fall from 1 m onto conte (6x) acc. to IEC 68-2-27		
Mechanical data			
	ninless-steel/Plastic, 1.4404 (AISI 6L)/polyarylamide 50 % GF UL 94 V-0		
Pressure connection material Sta	ninless steel 1.4404 (AISI 316L)		
Material pressure transducer Sta	Stainless steel 1.4016 (AISI 430)		
ing	/4" male thread (back sealing) accord- to DIN EN ISO 1179-2 with FPM pro- sealing ring		
Wrench size pressure connection / coupling nut			
Electrical connection Con	nnector, M12 × 1		
Max. tightening torque of housing nut 20	Nm		
Reference conditions acc. to IEC 61298-1			
Temperature 15.	+25 °C		
Atmospheric pressure 860	8601060 hPa abs.		
Humidity 45.	75 % rel.		
Auxiliary power 24	VDC		
Tests/approvals			
Approvals cUI	Lus		
UL registration number E30	02799		
MTTF 123	1238 years acc. to SN 29500 (Ed. 99) 40 °C		
Included in delivery FKI	M special profile seal (1x)		



Accessories

Dimension drawing	Туре	ID	
M12x1 e 15	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
9 15 M12x 1 26.5 32	WKC4.4T-2/TXL	6625515	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
015 M12x1 265 32	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
M12x1 e 15	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval