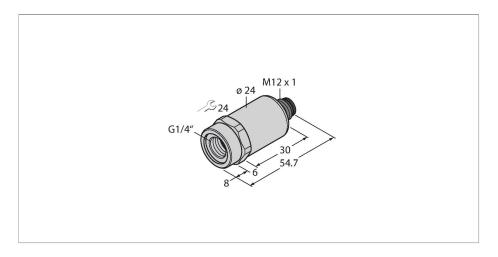


# PT3000PSIG-2001-I2-H1143/X Pressure Transmitter – With Current Output (2-Wire)





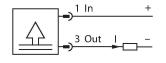
#### Technical data

Туре	PT3000PSIG-2001-I2-H1143/X		
ID	100001926		
Pressure type	Relative pressure		
Pressure range	0206.84 bar		
	03000 psi		
	020.68 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 <sub>B</sub>	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...3000 psi 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

or for oxygen applications.

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



### 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 1.4435 (AISI 316L) 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.

#### Accessories

Dimension drawing ID Type 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 M12x1 265 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 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
M12x1 o 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