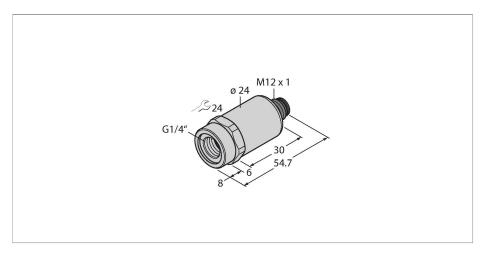


# PT2.5R-2001-U1-H1143/X Pressure Transmitter – With Voltage Output (3-Wire)





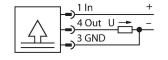
Туре	PT2.5R-2001-U1-H1143/X
ID	6836151
Pressure range	
Pressure type	Relative pressure
Pressure range	02.5 bar
	036.26 psi
	00.25 MPa
Admissible overpressure	≤ 12.5 bar
Burst pressure	≥ 25 bar
Response time	< 2 ms, typ. 1 ms
Long-term stability	0.25 % FS, according to IEC EN 60770-1
Power supply	
Operating voltage	1233 VDC
Current consumption	≤ 7 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 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...2.5 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 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** 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.