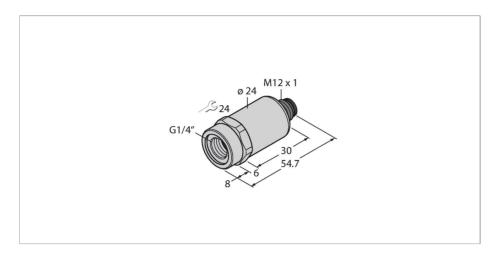


PT16R-2001-U1-H1141 Pressure Transmitter – With Voltage Output (3-Wire)



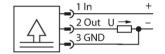
Technical data

Туре	PT16R-2001-U1-H1141
ldent. no.	6836372
Pressure range	
Relative pressure	016 bar rel.
	0232.1 psi
	01.6 MPa
Admissible overpressure	≤ 48 bar
Burst pressure	≥ 96 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

Features

- Fully welded metal measuring cell
- Pressure range 0...16 bar rel.
- 12...33 VDC
- Analog output 0...10 V
- Process connection G1/4" female thread
- Plug-in device, M12 × 1

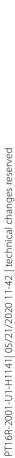
Wiring diagram





Functional principle

The pressure sensors of the PT...-2000 series operate with a fully welded metal measuring cell. Depending on the sensor variant, the processed signal is available as an analog output signal via 4...20 mA (2-wire). 0...10 V, 0...5 V and 1... 6 V (3-wire) or as an IO-Link process parameter. The IO-Link sensor versions also have two independently configurable switching outputs.





Technical data

Genauigkeit LHR	± 0.3 % FS BSL
Temperature behaviour	
Medium temperature	-40+135 °C
Temperature coefficient	± 0.2 % of full scale/10 K
Ambient conditions	
Ambient temperature	-30+85 °C
Storage temperature	-50+100 °C
Vibration resistance	20 g, 152000 Hz, 1525 Hz with amplitude +/- 15 mm, 1 octave/minute 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
Housing	
Housing material	Stainless-steel/Plastic, 1.4404 (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	G¼" female thread
Wrench size pressure connection / coupling nut	24
Electrical connection	Connector, M12 × 1
Max. tightening torque housing nut	20 Nm
Reference conditions acc. to IEC 61298-1	
Temperature	15+25 ℃
Atmospheric pressure	8601060 hPa abs.
Humidity	4575 % rel.
Auxiliary power	24 VDC
MTTF	1238 years acc. to SN 29500 (Ed. 99) 40 °C