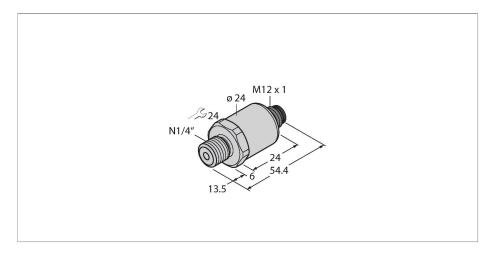


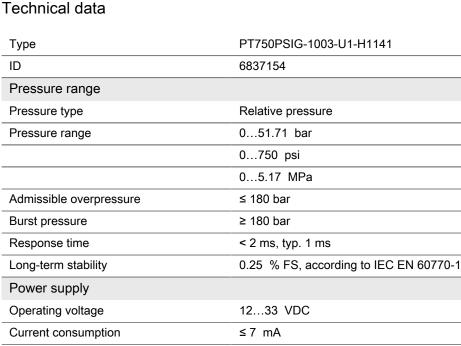
# PT750PSIG-1003-U1-H1141 Pressure Transmitter - With Voltage Output (3-Wire)



#### **Features**

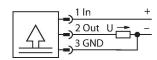
- Ceramic measuring cell
- Compact and robust design
- Excellent EMC properties
- Pressure range 0...750 psi relative
- ■12...33 VDC
- ■Analog output 0...10 V
- Process connection 1/4"-18 NPT male
- ■Plug-in device, M12 × 1

## Wiring diagram



ID	6837154
Pressure range	
Pressure type	Relative pressure
Pressure range	051.71 bar
	0750 psi
	05.17 MPa
Admissible overpressure	≤ 180 bar
Burst pressure	≥ 180 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





### Functional principle

The pressure sensors in the PT...-1000 product series operate with a ceramic measuring cell in various pressure ranges of up to -1...60 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

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.

±0.3 % FS (typical; max. ±0.5 % FS)



# Technical data

Temperature coefficient ± 0  Environmental conditions  Ambient temperature -30  Storage temperature -50  Vibration resistance 20  plit	0+125 °C  0.2 % of full scale/10 K  0+85 °C  0+100 °C  0 g, 152000 Hz, 1525 Hz with amitude ± 15 mm, 1 octave/minute in all 3
Environmental conditions  Ambient temperature -30  Storage temperature -50  Vibration resistance 20  plit dire	0+85 °C 0+100 °C 0 g, 152000 Hz, 1525 Hz with am-
Ambient temperature -30  Storage temperature -50  Vibration resistance 20 plit	0+100 °C 0 g, 152000 Hz, 1525 Hz with am-
Storage temperature -50  Vibration resistance 20 plit	0+100 °C 0 g, 152000 Hz, 1525 Hz with am-
Vibration resistance 20 plit dire	g, 152000 Hz, 1525 Hz with am-
plit dire	
IEC	rections, 50 continuous loads, acc. to C 68-2-6
6 c	00 g, 11 ms, half sinusoidal curve, all directions, free fall from 1 m onto conete (6x) acc. to IEC 68-2-27
Mechanical data	
	ainless-steel/Plastic, 1.4404 (AISI 6L)/polyarylamide 50 % GF UL 94 V-0
Pressure connection material Sta	ainless steel 1.4404 (AISI 316L)
Pressure transducer material Ce	eramic Al₂O₃
Sealing material FP	PM spez.
Process connection 1/4	4" NPT-18 male thread
Wrench size pressure connection / coupling nut	ı
Electrical connection Co	onnector, M12 × 1
Max. tightening torque of housing nut 20	) Nm
Reference conditions acc. to IEC 61298-1	
Temperature 15	5+25 °C
Atmospheric pressure 86	601060 hPa abs.
Humidity 45	575 % rel.
Auxiliary power 24	VDC
Tests/approvals	
Approvals cU	JLus
UL registration number E3	302799
MTTF 123	238 years acc. to SN 29500 (Ed. 99) 40