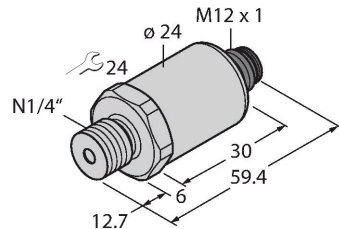


# PT24V-2003-I2-H1141

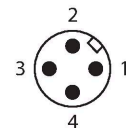
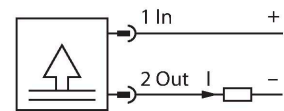
## Pressure Transmitter – With Current Output (2-Wire)



### Features

- Fully welded metal measuring cell
- 7...33 VDC
- Analog output 4...20 mA
- Process connection 1/4"-18 NPT male thread
- Plug-in 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

Type	PT24V-2003-I2-H1141
ID	100006533
Response time	< 2 ms, typ. 1 ms
Long-term stability	0.25 % FS, according to IEC EN 60770-1
<b>Power supply</b>	
Operating voltage	7...33 VDC
Current consumption	≤ 23 mA
Short-circuit/reverse polarity protection	yes / yes
Protection type and class	IP67 / III
Insulation voltage	750 VDC
<b>Outputs</b>	
Output 1	Analog output
Output function	Analog output current
<b>Analog output</b>	
Current output	4...20 mA
Load	≤ (Supply voltage - 7)/20 kΩ
<b>Temperature behaviour</b>	
Medium temperature	-40...+135 °C
Temperature coefficient	± 0.2 % of full scale/10 K
<b>Environmental conditions</b>	
Ambient temperature	-30...+85 °C
Storage temperature	-50...+100 °C
Vibration resistance	20 g, 15...2000 Hz, 15...25 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6

## Technical data

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)

Process connection 1/4" NPT-18 male thread

Wrench size pressure connection / coupling nut 24

Electrical connection Connector, M12 × 1

Max. tightening torque of housing nut 20 Nm

### Reference conditions acc. to IEC 61298-1

Temperature 15...+25 °C

Atmospheric pressure 860...1060 hPa abs.

Humidity 45...75 % rel.

Auxiliary power 24 VDC

### Tests/approvals

Approvals cULus

UL registration number E302799

MTTF 1189 years acc. to SN 29500 (Ed. 99) 40 °C