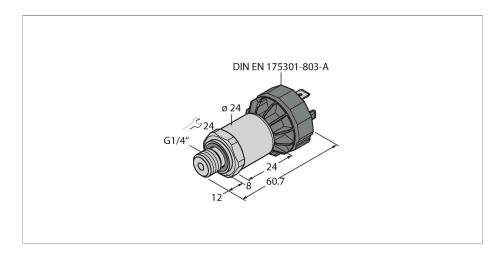


PT0.05V-1504-I2-DA91/D840 Pressure Transmitter – With Current Output (2-Wire)





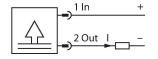
Technical data

Туре	PT0.05V-1504-I2-DA91/D840
ID	100008134
Pressure range	
Pressure type	Relative pressure
Pressure range	-0.050.05 bar
	-0.0730.073 psi
	-0.0050.005 MPa
Admissible overpressure	≤ 2 bar
Permissible vacuum	-0.3 bar
Burst pressure	≥ 2 bar
Response time	< 150 ms
Adjustment position	Vertical, pressure connection at bottom
Vertical position error, pressure connection at top	+ 0.2 mbar
Horizontal position error	+ 0.1 mbar
Long-term stability	0.25 % FS, Acc. to IEC EN 60770-1
Power supply	
Operating voltage	1030 VDC
Current consumption	≤ 23 mA
Short-circuit/reverse polarity protection	yes / yes
Protection type and class	IP65 / III
Insulation voltage	500 VDC
Outputs	
Output 1	Analog output
Analog output	
Current output	420 mA
Load	≤ (Supply voltage -10)/20 kΩ

Features

- Ceramic measuring cell
- Extremely high measuring accuracy
- Compact and robust design
- Excellent temperature behavior
- Pressure range -50...50 mbar rel.
- ■10...30 VDC
- ■Analog output 4...20 mA
- Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring
- Connector device, DIN EN 175301-803-A

Wiring diagram





Functional principle

The pressure sensors in the PT...-1500 product series operate with a ceramic measuring cell in various micropressure ranges of up to -100...600 mbar in 2- or 3-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, ratiometric).

In addition to the standard variants, there are special sensors for uses such as ATEX areas.



Technical data

<± 0.1 % FS Resolution Accuracy LHR ±0.35 % FS (FS < 100 mbar ±0.7 % FS) Temperature behaviour Medium temperature -15...+85 °C Temperature coefficient span TkS ± 0.07 % FS/10 K **Environmental conditions** Ambient temperature -25...+85 °C -40...+85 °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, according to IEC 68-2-6 Shock resistance 50 g, 6 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) Pressure transducer material Ceramic Al₂O₃ FPM Sealing material Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring Wrench size pressure connection / cou-27 pling nut Electrical connection Connector, DIN EN 175301-803 Form A Max. tightening torque of housing nut 27 Nm Reference conditions acc. to IEC 61298-1 15...+25 °C Temperature 800...1060 hPa abs. Atmospheric pressure 45 % rel. Humidity 24 VDC Auxiliary power Tests/approvals Approvals cULus E302799 UL registration number **MTTF** 965 years acc. to SN 29500 (Ed. 99) 40 Included in delivery Profile seal FKM special (1 pc)

A wide range of process connections and electrical connections offer a high degree of flexibility in a wide range of applications.