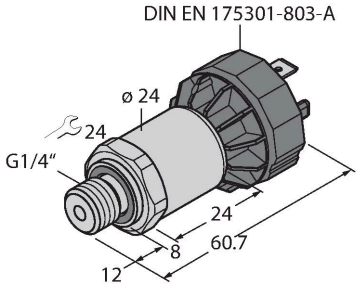
PT1.5V-1004-I2-DA91
Pressure Transmitter – With Current Output (2-Wire)



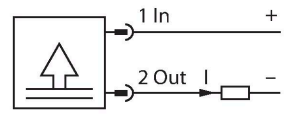
Technical data

Type	PT1.5V-1004-I2-DA91
Ident. no.	100000077
Pressure range	
Relative pressure	-1…1.5 bar rel.
	-14.5…21.76 psi
	-0.1…0.15 MPa
Admissible overpressure	≤ 4.8 bar
Burst pressure	≥ 4.8 bar
Response time	< 2 ms, typ. 1 ms
Long-term stability	0.25 % FS, according to IEC EN 60770-1
Power supply	
Operating voltage	7…33 VDC
Current consumption	≤ 23 mA
Short-circuit/reverse polarity protection	yes / yes
Protection type and class	IP65 / III
Insulation voltage	750 VDC
Outputs	
Output 1	Analog output
Output function	Analog output current
Analog output	
Current output	4…20 mA
Load	≤ (Supply voltage -7)/20 kΩ
Resolution	<± 0.1 % FS

Features

- Ceramic measuring cell
- Compact and robust design
- Excellent EMC properties
- Pressure range -1…1.5 bar rel.
- 7…33 VDC
- Analog output 4…20 mA
- Process connection G1/4" male thread
- Plug-in device, DIN EN 175301-803-A

Wiring diagram





Functional principle

The pressure sensors of the PT …-1000 series operate with a ceramic 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.

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Technical data

Accuracy LHR	± 0.3 % FS BSL
Temperature behaviour	
Medium temperature	-40…+125 °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, 15…2000 Hz, 15…25 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 (AISI 316L)/polyacrylamide 50 % GF UL 94 V-0
Pressure connection material	Stainless steel 1.4404 (AISI 316L)
Pressure transducer material	Ceramics Al_2O_3
Sealing material	FPM spez.
Process connection	G 1/4" male thread
Wrench size pressure connection / coupling nut	24
Electrical connection	Connector, DIN EN 175301-803 Form A
Max. tightening torque 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
Approvals	UL E302799
MTTF	1189 years acc. to SN 29500 (Ed. 99) 40 °C

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