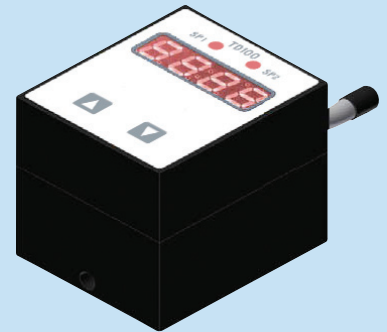


Brooks[®] TD100 Series Pressure Transducer Displays

Accurate, miniature displays for point-of-use pressure monitoring

- » Local indication of process pressure measurement
- » 4 digit display in durable metal enclosure
- » Programmable zero and full scale
- » Setpoint indication and contact switching options
- » CE and RoHS compliant



Product Description

Local display of process pressure improves safety and quality control of the gas delivery systems. The Brooks TD100 series pressure transducer displays allow a 4–20mA sensor to digitally display its pressure and send its signal to a final destination. A sensor, such as the Brooks SolidSense[®] II pressure transducer, connects to either the back or bottom of the TD100 with a 4-pin, Bendix[®] connector. The TD100 connects to the loop through either a 6-wire pigtail cable or a 4-pin male Bendix connector. The TD100 offers a real time reading. It is a single channel loop powered display that can swivel around the transducer so the viewing angle can be adjusted. The display has red LED lighting for easy reading in low ambient light. The TD100 has two adjustable alarm setpoints.

Applications

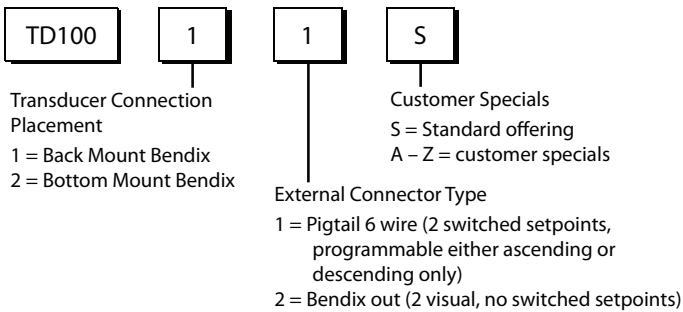
Gas delivery systems and tools including:

- Gas cabinets
- Gas panels
- Gas distribution systems
- Bulk gas

Benefits

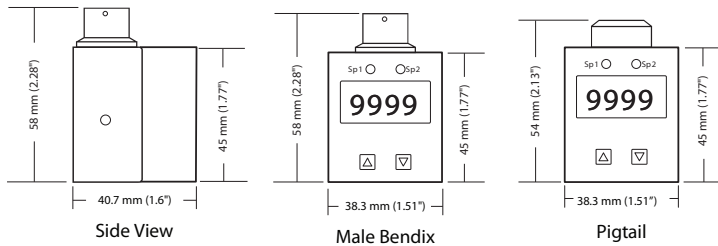
- Point-of-use pressure monitoring
- Extremely accurate reading with outstanding noise immunity
- Low power electronics
- Ease of use and installation

Product Configurations



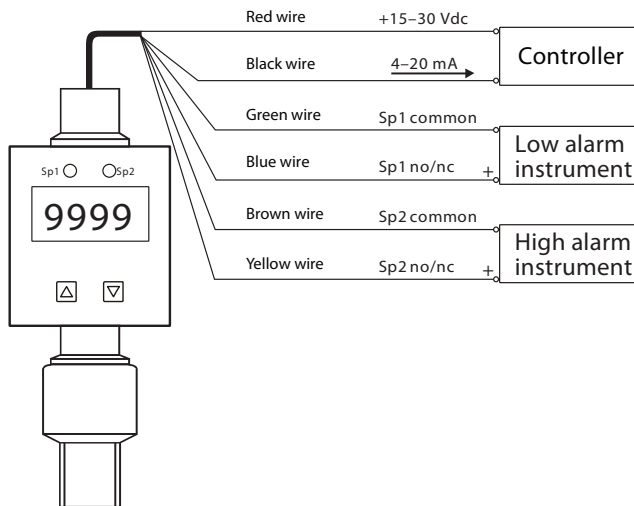
Product Dimensions

TD100 Series



Loop Voltage Simplified

TD100 Series



Brooks TD100 Series Pressure Transducer Display Specifications

Features

- 4–20mA output signal
- Available measuring units include MPa, psi, psig, psia, KPa, Bar, kg/cm and kg
- Programmable zero and FS
- Swivel around transducer for better viewing angle
- Two user programmable/ adjustable alarm setpoints

Display

Accuracy	±0.1% FS
Conversion rate	10 times/second
Decimal point	User adjustable
Digital damping	0.3 to 3 sec (programmable)
Digits and type	4 digit, red LED with 7 segments
Polarity	automatic (–) displayed in vacuum
Range	–1999 to +9999
Temperature coefficient	±0.01 %FS/degree F
Value update	0.1 to 10 sec

Material

Housing	Aluminum, powder coating
Digit height/width	9 mm/5.4 mm
Pigtail length	2 M standard, (optional lengths upon request)
Stability, Vibration	15 Grm 10–2000 Hz (Mil-Std-202M20 Cond. B)
Stability, Shock	50 g, 11 msec (Mil-Std-202, M213 Cond G.)
Approx. shipping weight	200g

Electrical

Power requirements	Voltage drop <4.5; Minimum lit-up current 3 mA.
Input	4–20ma (2 wire, loop powered)
Connections	
Input:	Back mount, 4-pin female Bendix connector, factory wired for 4–20 ma transducer
Input:	Bottom mount, 4 pin female Bendix connector, factory wired for 4–20 ma transducer
Output:	Top mount, pigtail, 6 wire cable
Output:	Top mount, male bendix 4-pin connector
Pressure warnings	2 switched setpoints for pigtail, 2 visual set points for 4-pin Bendix
Setpoint Contact Rating	125 mA (max) and 26 VDC, electrically isolated
Resistive load:	Max 10 K ohm
Inductance:	4.7mH
Switching cycles:	>80K
Protection	
Short:	Permanent short circuit protection
Reverse:	No damage at reverse polarity, but no function
Access:	Password protection
Data Storage:	EPROM, 4 K max.

Environmental

Temperature range	
Operating:	–20 to 85°C
Storage:	–40 to 85°C

Compliance

CE	Compliant to EMC directive EN61326
RoHS	Compliant to EU directive 2002/95/



Brooks and SolidSense are trademarks of Brooks Instrument, LLC. All other product or service names mentioned in this document may be trademarks of the companies with which they are associated. System descriptions are typical and subject to change without notice.

DS-PR-TD100-eng 01/11
 (supersedes 153-30248-000 Rev 001 08/07)

Brooks Instrument
 407 West Vine Street
 P.O. Box 903
 Hatfield, PA 19440-0903 USA
 T (215) 362 3700
 F (215) 362 3745
 E-Mail BrooksAm@BrooksInstrument.com
www.BrooksInstrument.com

Brooks Instrument
 Neonstraat 3
 6718 WX Ede, Netherlands
 T +31 (0) 318 549 300
 F +31 (0) 318 549 309
 E-Mail BrooksEu@BrooksInstrument.com

Brooks Instrument
 1-4-4 Kitasuna Koto-Ku
 Tokyo, 136-0073 Japan
 T +81 (0) 3 5633 7100
 F +81 (0) 3 5633 7101
 E-Mail BrooksAs@BrooksInstrument.com