

Digitally Corrected Wet/Wet Differential Pressure Transducer

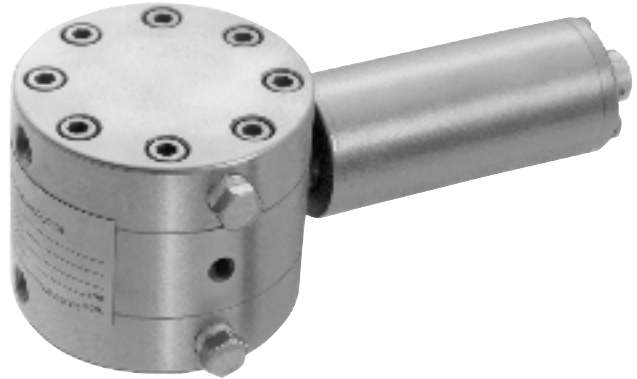
Model DSD

25 TO 1000 PSID

ACCURACY TO 0.5% (T.E.B.)

HIGH LINE

AMPLIFIED OUTPUT AVAILABLE



The Model DSD wet/wet differential pressure transducer features an on-board module to digitally compensate for temperature changes and for fluctuations in line pressure. Controlling these parameters results in an accuracy of 0.5% (total error band) including temperature effect, line pressure variance, and static errors. The DSD features a 0-5VDC analog output with a 1500 Hz update rate. For digital communication with data loggers, controllers or PCs, the unit provides an RS232 or RS485 interface with an update rate of 120Hz. Available in ranges from 25 to 1,000 psid, with outstanding temperature stability and consistent performance.

Dimensions

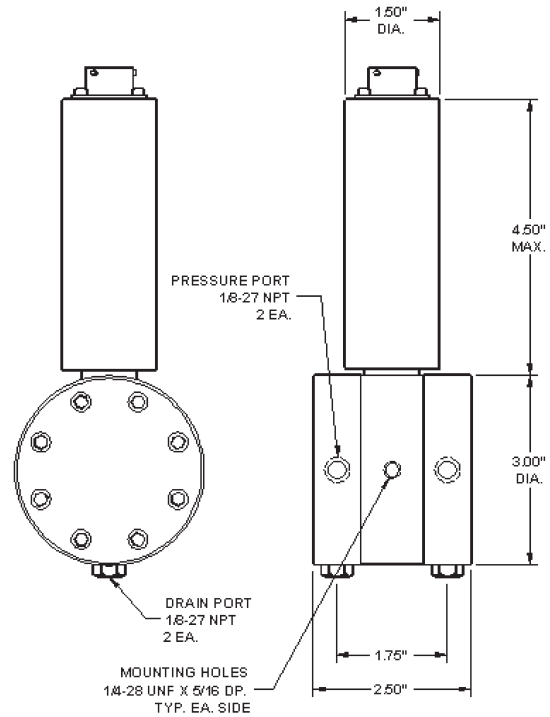
Model DSD

Order code BD651: RS-232 output

Order code BD652: RS-485 output

Available Ranges

25; 50; 75; 100; 150; 200;
300; 500; 750; 1000;
2000; 5000; 10000 psid



Options (See Appendix)

Temperature compensated 1b, 1c, 1d, 1e, 1k

Electrical termination 6e, 6f, 6g, 6h; 25b;

Premium Options: 5c; 10a; 26a

Accessories: Mating connectors and connector/cable assemblies; Pressure port adapters

Model DSD

Order Code BD651: RS-232 output

Order Code BD652: RS-485 output

PERFORMANCE	Pressure Ranges..... 25 to 1000 psid Static Accuracy..... 0.1% F.S. Accuracy (TEB) ±0.5% F.S.* Output..... RS485 or RS232, plus 0-5VDC (non isolated) Baud Rate 1200, 2400, 4800, 9600, 19200, 57600 or 115200 Data Framing..... 1 start bit, 8 data bits, 1 stop bit Output Response Digital..... 120 readings/sec. at 115K baud Analog..... Max. 1500 updates/sec. with <2 millisecon. step response Output Resolution Digital..... 0.05% or 5 significant digits Analog..... 1.22mV/bit (12 bits on 0-5 VDC)
ENVIRONMENTAL	Temperature, Operating..... -40°F to 180°F Temperature, Compensated 60°F to 160°F
ELECTRICAL	Power Requirements..... 15-28VDC @ 75mA peak Electrical Termination (std)..... Bendix PTO2-12-8P Mating Connector (not incl.) PTO6A-12-8S
MECHANICAL	Media..... Gas, Liquid Maximum Line Pressure 1500 psi Maximum Overload – Safe (either side)..... 1500 psi Pressure Port 1/8-27 NPT Tapped Mounting Hole (2ea) 1/4-28 UNF x 5/16 DP Drain Port 1/8-27 NPT Wetted Parts Material..... 17-4 PH Stainless Weight 5.0 lbs. O-Ring Seals viton Dead Volume..... 0.25 cu. in. Case Material 17-4 Stainless

*Including errors due to temperature and line pressure.

Wiring Code

PIN	FUNCTION	PIN	FUNCTION
A	RS-486 A(+) / RS-232 TxD	E	Supply return
B	0-5VDC Analog output	F	(+) Supply 15-28 VDC
C	Analog output return	G	RS-485 B(-) / RS-232 RxD
D	No connection	H	RS-485 Ground / RS-232 Ground

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传真：0755-83376182 (0) 13902971329 MSN: SUNS8888@hotmail.com

邮编：518033 E-mail:szss20@163.com QQ: 195847376

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西安分公司：西安高新开发区 20 所(中国电子科技集团导航技术研究所)

西安劳动南路 88 号电子商城二楼 D23 号

TEL: 029-81022619 13072977981 FAX:029-88789382