Configurable Differential Pressure Transducers

FP2000 Series

2-week delivery

mV/V, 0-5, 0-10 VDC, OR 4-20 mA

WET WET & WET DRY DIFFERENTIAL











The FP2000 Series is a manufacturing and delivery system which allows the

customer to select the configurati	ion which best fits the needs	of the application. Choose
from two accuracies, four outputs	s, six pressure ports, five elec	ctrical terminations and twelve
pressure ranges. The FP is available deliver in 2 weeks or less.	able with wet/wet or wet/dry	reference and, best of all, they
	Wet/wet differential	Wet/dry differential

FDW

PERFORMANCE

Positive Pressure Ranges Accuracy (BFSL) Output (selectable) Resolution

Order Code

See chart next page 0.1% or 0.25% F.S.

FDD

mV/V, 0-5 VDC, 0-10 VDC, or 4-20 mA (2 wire)

-40° F to 240° F

40° F to 140° F

ENVIRONMENTAL

Temperature, Operating Temperature, Compensated Temperature Error Band*

±0.5% F.S.

0.1% Accuracy 0.25% Accuracy

±1% F.S.

ELECTRICAL

Amplified (4-20mA, 0-5 VDC) Amplified (0-10 VDC) Unamplified (mV/V)

9 - 28 VDC 15 - 28 VDC

Excitation (calibration)

10 VDC

MECHANICAL

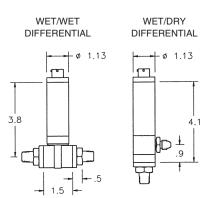
Media** Overload-Safe (+direction) Overload-Safe (-direction) Wetted Parts Material Line Pressure

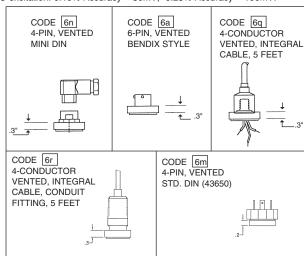
Gas, Liquid 4x FS or 3,000 psi, whichever is less 4xFS or 250 psi, whichever is less Ha C276 & 316L ss

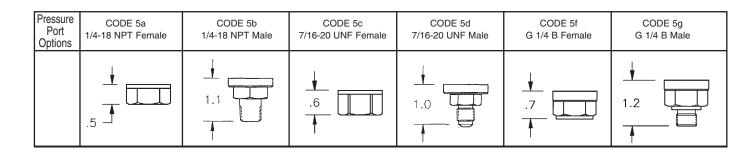
- * For ranges below 15psi, temperature effects may vary.
- ** The Wet/Wet differential pressure transducer has two separate, welded Hastelloy diaphragms. In the wet/dry unit, the wet port (high port) has all-welded stainless and Hastelloy construction. The dry port (low port) has no isolation diaphragm.

NOTE: Output for non-amplified units @ 10VDC excitation: 0.10% Accuracy = 50mV, 0.25% Accuracy = 100mV.

Dimensions







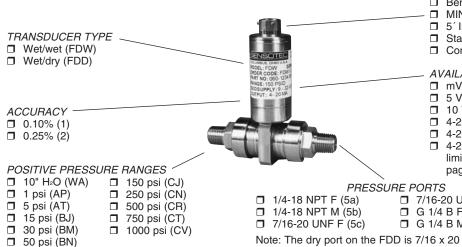
HOW TO ORDER

www.sensotec.com/FP2000.htm

It's easy to order exactly what you need. Simply make one selection in each of the required categories, choose adders and accessories only if you want them. The result is a custom transducer with quick delivery!

Output Port Example Туре Accuracy Range Connector Order Code: **FDW** AT

This example is for a wet/wet differential pressure unit, 0.10% accuracy, 5 psi range, mV/V output, 1/4-18 NPT Male pressure port, and a Bendix electrical connection.



ELECTRICAL CONNECTIONS

- ☐ Bendix PTIH-106P (6a)
- MINI DIN, 40050 (6n)
- 5' Integral cable, polyurethane (6q)
- Standard DIN, 43650 (6m)
- ☐ Conduit fitting (6r)

AVAILABLE OUTPUTS

- mV/V (2u)
- 5 VDC (2d)
- 10 VDC (2g)
- 4-20 mA (2p)
- 4-20 mA, CE (2v)
- 4-20 mA, Intrinsically Safe (2n or 2N; limited to ranges </= 5000 psi.) See page AP-6.
- □ 7/16-20 UNF M (5d) ☐ G 1/4 B F (5f)
- ☐ G 1/4 B M (5g)

Note: The dry port on the FDD is 7/16 x 20 UN, and is not selectable.

ADDERS

Selecting an Adder will automatically update the output code.

- ☐ Extended temperature range (1y)
- ☐ Buffered shunt cal (3d)
- CE rating (9e)

100 psi (BŔ)

- Intrinsically safe, 2 wire (9d) see page AP-6
- ☐ CE and Intrinsically safe (9f) see page AP-6
- ☐ Potentiometers (14c)

ACCESSORIES

Mating connectors with 15' of cable for Bendix connector (6a)

	without shunt	with shunt (3d)
□ mV/V	AA113	AA513
☐ 4-20 mA	AA116	AA516
□ 0-5 / 0-10 VDC	AA117	AA517
Mating Connectors Only Mini DIN (40050) Bendix Standard DIN (43650)	AA161 AA111 AA157	

WIRING CODES, no shunt cal.

Mating Output Connectors	mV/V 2u	0-5 VDC 2d	0-10 VDC 2g	4-20 2p	O mA 2n or 2N
AA161 Mini DIN	#37	#38	#38	#54	#53
AA111 Bendix	#2	#50	#50	#49	#23
6q Cable	#1	#52	#52	#51	#22
6r Conduit Fitting	#1	#52	#52	#51	#22
AA157 Std. DIN	#37	#38	#38	#54	#53

WIRING CODES, with shunt cal. option (3d)

Mating Output Connectors	mV/V 2u	0-5 VDC 2e	0-10 VDC 2f	4-2 2y	0 mA 2n or 2N
AA161 Mini DIN	N/A	#56	#56	#55	#64
AA111 Bendix	#57	#60	#60	#58	#59
6q Cable	N/A	#63	#63	#61	#62
6r Conduit Fitting	N/A	#63	#63	#61	#62
AA157 Std. DIN	N/A	#56	#56	#55	#64