

NEW

Configurable Differential Pressure Transducers

FP2000 Series



APPROVED
INTRINSICALLY
SAFE AMP

2-WEEK DELIVERY

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

WET WET & WET DRY DIFFERENTIAL

SENSOTEC's FP2000 Series is a manufacturing and delivery system which allows the customer to select the configuration which best fits the needs of the application. Choose from two accuracies, four outputs, six pressure ports, five electrical terminations and twelve pressure ranges. The FP is available with wet/wet or wet/dry reference and, best of all, they deliver in 2 weeks or less.

PERFORMANCE

ENVIRONMENTAL

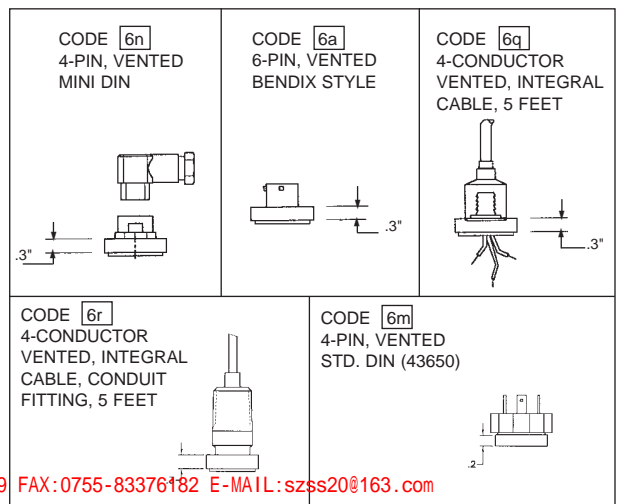
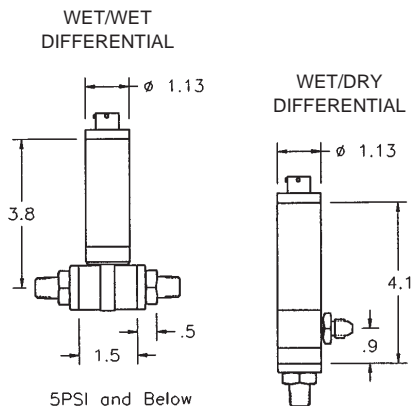
**ELECTRICAL
MECHANICAL**

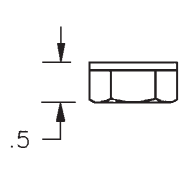
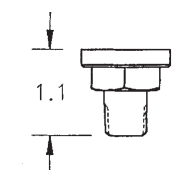
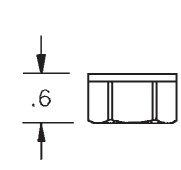
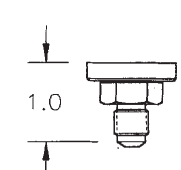
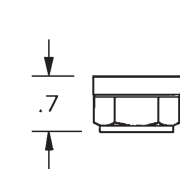
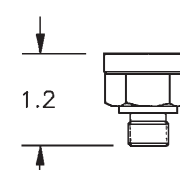
Order Code	Wet/wet differential FDW	Wet/dry differential FDD
Positive Pressure Ranges		See chart next page
Accuracy (BFSL)		0.1% or 0.25% F.S.
Output (selectable)	mV/V, 0-5 VDC, 0-10 VDC, or 4-20 mA	4-20 mA (2 wire)
Resolution		Infinite
Temperature, Operating		-40° F to 240° F
Temperature, Compensated		40° F to 140° F
Temperature Error Band		
0.1% Accuracy		±0.5% F.S.*
0.25% Accuracy		±1% F.S.*
Excitation (calibration)		
Amplified (4-20mA, 0-5 VDC)		9 - 28 VDC
Amplified (0-10 VDC)		12 - 28 VDC
Unamplified (mV/V)		10 VDC
Media**		Gas, Liquid
Overload-Safe (+direction)		4x FS or 3,000 psi, whichever is less
Wetted Parts Material		Ha C276 & 316L ss
Line Pressure		500 psi

* 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) does not have an isolation diaphragm.

Dimensions



Pressure Port Options	CODE 5a 1/4-18 NPT Female	CODE 5b 1/4-18 NPT Male	CODE 5c 7/16-20 UNF Female	CODE 5d 7/16-20 UNF Male	CODE 5f G 1/4 B Female	CODE 5g G 1/4 B Male
						

HOW TO ORDER

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!

Example Order Code:

Type	Accuracy	Range	Output	Port	
FDW	1	AT	2u	5b	6a

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.

TRANSDUCER TYPE

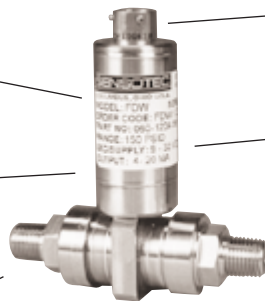
- Wet/wet (FDW)
- Wet/dry (FDD)

ACCURACY

- 0.10% (1)
- 0.25% (2)

POSITIVE PRESSURE RANGES

- 10" H₂O (WA)
- 1 psi (AP)
- 5 psi (AT)
- 15 psi (BJ)
- 30 psi (BM)
- 50 psi (BN)
- 100 psi (BR)
- 150 psi (CJ)
- 250 psi (CN)
- 500 psi (CR)
- 750 psi (CT)
- 1000 psi (CV)



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 and intrinsically safe (2n)
- Ranges 5000psi. For use with adders 9d and 9f

PRESSURE PORTS

- 1/4-18 NPT F (5a)
- 1/4-18 NPT M (5b)
- 7/16-20 UNF F (5c)
- 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

- Extended temperature range (1y)
- Buffered shunt cal (3d)
- CE rating (9e)
- Intrinsically safe, 2 wire (9d)
- CE and Intrinsically safe (9f)
- Potentiometers (14c)

WIRING CODES, no shunt cal.

Mating Connectors \ Output	mV/V 2u	0-5 VDC 2d	0-10 VDC 2g	4-20 mA 2p 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	N/A	#52	#52	#51	#22
AA157 Std. DIN	#37	#38	#38	#54	#53

ACCESSORIES

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

	without shunt	with shunt (3d)
<input type="checkbox"/> mV/V	AA113	AA513
<input type="checkbox"/> 4-20 mA	AA116	AA516
<input type="checkbox"/> 0-5 / 0-10 VDC	AA117	AA517

Mating Connectors Only

- Mini DIN (40050) AA161
- Bendix AA111
- Standard DIN (43650) AA157

WIRING CODES, with shunt cal. option (2d)

Mating Connectors \ Output	mV/V 2u	0-5 VDC 2e	0-10 VDC 2f	4-20 mA 2y 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

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深圳赛格展销部：深圳华强北路赛格电子市场 2583 号 电话：0755-83665529 25059422

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TEL: 021-28311762 56703037 13701955389 FAX: 021-56703037

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