

Configurable Pressure Transducers

FP2000 Series



2-WEEK DELIVERY

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

GAGE, ABSOLUTE, VACUUM, BAROMETRIC

The 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 twenty-five pressure ranges. The FP is available with gage, absolute, barometric or vacuum reference and, best of all, they deliver in 2 weeks or less.

PERFORMANCE

Order Code	Gage FPG	Absolute FPA	Barometric FPB	Vacuum FPV
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 (2 wire)	
Resolution			Infinite	

ENVIRONMENTAL

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.	

ELECTRICAL

Excitation (calibration)				
Amplified (4-20mA, 0-5 VDC)			9 - 28 VDC	
Amplified (0-10 VDC)			15 - 28 VDC	
Unamplified (mV/V)			10 VDC	

MECHANICAL

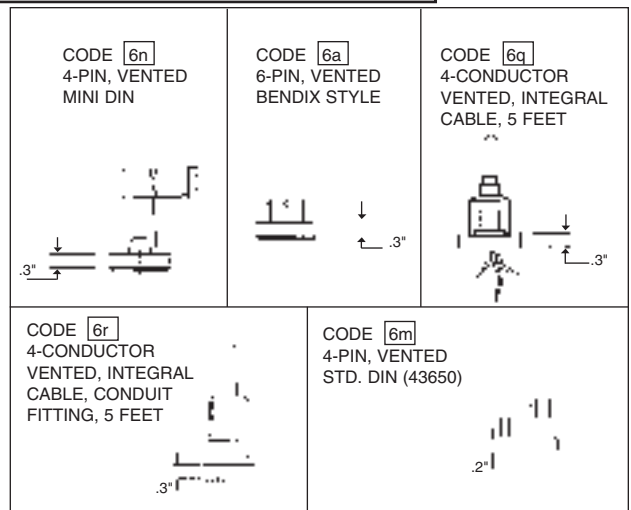
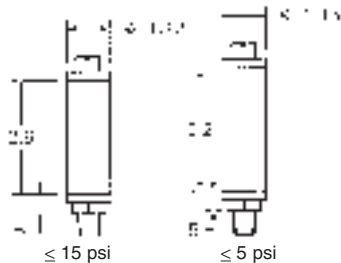
Media			Gas, Liquid	
Overload-Safe				
1000 psi and below			4x FS or 3,000 psi, whichever is less	
1500 psi and above			4x FS or 15,000 psi, whichever is less	
Wetted Parts Material			Ha C276 & 316L ss	

*For ranges below 15psi, temperature effects may vary.

Non-amplified output @ 10 VDC excitation			
	FPG & FPA	FPV	FPB
0.10% accuracy	50 mV	33 mV	40 mV
0.25% accuracy	100 mV	50 mV	80 mV

Dimensions

GAGE, ABSOLUTE,
BAROMETRIC & VACUUM



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 G1/4B Female	CODE 5g G1/4 B Male
<1000PSI						
>1500PSI						

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 standard delivery!

Example TYPE ACCURACY RANGE OUTPUT PORT CONNECTOR
 Order Code:

This example is for a gage 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

- Gage (FPG)
- Absolute (FPA)
- Barometric (FPB)
- Vacuum (FPV)

ACCURACY

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

GAGE/ABSOLUTE 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)
- 1500 psi (DJ)
- 2500 psi (DM)
- 5000 psi (DR)
- 7500 psi (DT)
- 10000 psi (DV)

*Gage only

BAROMETRIC

- 16"-32" Hga (UQ)
- 26"-32" Hga (UR)
- 0-30" Hga (UG)



ELECTRICAL CONNECTIONS

- Bendix PTIH-106P (6a)
- MINI DIN, 40050 (6n)
- 5' Integral cable, polyurethane (6q)
- Std. 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 (2y)
- 4-20 mA, Intrinsically Safe (2n or 2N; limited to ranges <= 5000 psi.)

VACUUM

- 10" H₂Ov (WA)
- 1 psiv (AP)
- 5 psiv (AT)
- 10 psiv (AV)
- 15 psiv (BJ)

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)

ADDERS

Selecting an Adder will automatically update the output code.

- Extended temperature range (1y)
- Buffered shunt cal (3d)
- CE rating (9e)
- Intrinsically safe, 2 wire (9d) See page AP-6
- CE and Intrinsically safe (9f) See page AP-6
- Potentiometers (14c)

WIRING CODES, no shunt cal

Mating Connectors	Output	mV/V	0-5 VDC	0-10 VDC	4-20 mA	
	2u	2d	2g	2p	2n or 2N	
AA161 Mini DIN	#37	#38	#38	#54	#53	
AA111 Bendix	#2	#50	#50	#49	#23	
6q Integral Cable	#1	#52	#52	#51	#22	
6r Conduit	#1	#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		
<input type="checkbox"/> Mini DIN (40050)	AA161	
<input type="checkbox"/> Bendix	AA111	
<input type="checkbox"/> Standard DIN (43650)	AA157	

WIRING CODES, with shunt cal option (3d)

Output	mV/V	0-5 VDC	0-10 VDC	4-20 mA	
	2u	2e	2f	2y	2n or 2N
AA161 Mini DIN	NA	#56	#56	#55	#64
AA111 Bendix	#57	#60	#60	#58	#59
6q Integral Cable	NA	#63	#63	#61	#62
6r Conduit Fitting	NA	#63	#63	#61	#62
AA157 Std DIN	NA	#56	#56	#55	#64