

# 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.

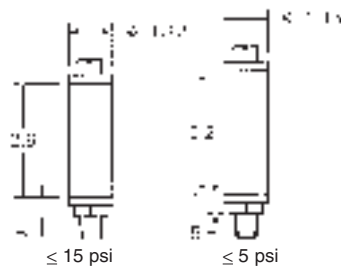
	Gage FPG	Absolute FPA	Barometric FPB	Vacuum FPV
<b>PERFORMANCE</b>	Pressure Ranges		See chart next page	
	Accuracy (BFSL)		0.1% or 0.25% F.S.	
	Output (selectable)		mV/V, 0-5 VDC, 0-10 VDC, or 4-20 mA (2 wire)	
	Resolution		Infinite	
<b>ENVIRONMENTAL</b>	Temperature, Operating		-40° F to 240° F	
	Temperature, Compensated		40° F to 140° F	
	Temperature Error Band*			
	0.1% Accuracy		±0.5% F.S.	
	0.25% Accuracy		±1% F.S.	
<b>ELECTRICAL</b>	Excitation (calibration)			
	Amplified (4-20mA, 0-5 VDC)		9 - 28 VDC	
	Amplified (0-10 VDC)		15 - 28 VDC	
	Unamplified (mV/V)		10 VDC	
<b>MECHANICAL</b>	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



<p>CODE [6n] 4-PIN, VENTED MINI DIN</p>	<p>CODE [6a] 6-PIN, VENTED BENDIX STYLE</p>	<p>CODE [6q] 4-CONDUCTOR VENTED, INTEGRAL CABLE, 5 FEET</p>
<p>CODE [6r] 4-CONDUCTOR VENTED, INTEGRAL CABLE, CONDUIT FITTING, 5 FEET</p>	<p>CODE [6m] 4-PIN, VENTED STD. DIN (43650)</p>	

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](http://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:    FPG      1      AT      2u      5b      6a

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" H<sub>2</sub>O (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" H<sub>2</sub>Ov (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 2u	0-5 VDC 2d	0-10 VDC 2g	4-20 mA 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)

- mV/V      AA113      AA513
  - 4-20 mA      AA116      AA516
  - 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 (3d)

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

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