



Model 2000 Precision Barometric Pressure Transducer

- Transmitter is customized to your specific atmospheric requirements
- Transmitter output is digitally mapped to enhance accuracy at any specific Temperature or Pressure range.
- Multiple Outputs 4-20mA, 0-5V, 0-10V, RS232, RS485 and USB 2.0
- Accuracies to 0.03% BFSL
- 24.4"to 34.6"HgA range (custom ranges available. See page 2)
- Optional analog temperature outputs
- Optional USB connectivity



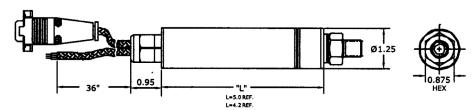
DESCRIPTION

Spectre's Precision Series 2000 Pressure Transducers offer the first available sensors that are manufactured, designed and calibrated to each customers specific operating conditions. Each transducer *output is digitally mapped* to correct for any non-linearities or inaccuracies in the sensor. This digital correction and the inherent advantages of the fused bond sensor provide the most accurate and flexible transducer in the industry.

FEATURES

- Proprietary Fused Bond Sensor
- Accuracy 0.05% to 0.03% BFSL
- o RFI/EMI Protection
- Digital Temperature Correction at operating conditions
- Sensor Wetted Material
 Machined From Solid Stainless
 Steel Bar Stock (No Welds)
- Unparalleled Long Term Stability

DIMENSIONS





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Model 2000 Barometric Pressure Transducer

Ordering Guide - Example 2000-A-(Baro)-D-1-05-EC1

Please inquire for specials or options

Α	(Baro)	Α	1	05	EC1
Pressure Port	Range	Pressure Output	Temp Output	Accuracy	Connector
A=1/4"MNPT	Baro=24.4" to	D=4-20mA	0=None	05=0.05% BFSL	EC1=36" pigtail
B=SAE-4	34.6" HgA**	E=0-5VDC	1=4-20mA	03=0.03% BFSL	EC2=DIN 43650
C=other	(12-17 PSIA)	F=0-10VDC	2=0-5VDC		with mate. Large
		G=RS232	3=TC		EC3=Mini DIN
		H=RS485	4=RTD (1000 Ohm)		DB9=DB9 serial
		X=Other			connector
		UC=USB (computer			USB=USB "A"##
		powered)***			ECX=Other

^{**}Optional ranges available from 16" HgA (lower limit) to 35" HgA (upper limit)

^{##}USB only used when "UC" pressure output specified.

Performance @ 25℃ (77℉)
Accuracy: <±0.05%BFSL (optional 0.03%)
Stability (2 year): ±0.05%FS, typical
Over range protection: 2X Rated Pressure
Burst Pressure: 2.5X Minimum
Pressure Cycles: >50 Million
Temperature Range: -55 to 85℃ (-65 to 185℉)
Temperature Accuracy: ±1 F (±1/2 ℃)

Environmental Data		
Temperature		
Operating: -40 to 85℃ (-40 to 185℉)		
Storage: -50 to 125℃ (-60 to 250℉)		
Thermal Limits		
Compensated Range: 0 to 55℃ (-32 to 130℉)		
Temp Comp Zero: <±0.2% FS		
Temp Comp Span: <±0.2% FS		

Electrical Data				
Excitation: 14-36Vdc (0-10Vdc),				
9-36Vdc (4-20mA and 0-5Vdc)				
Option C29 – Maximum 29 Vdc excitation				
Comms Output: Serial RS485, RS232, USB 2.0				
Current Consumption: <25mA				
Zero Offset: <±0.2% of FS				
Span Tolerance: <±0.2% FS				

Output load: > 10K Ohm

Physical Data				
Sensor: Wetted Material 17-4 pH SS (others on				
request)				
Pressure Connection: 1/4" MNPT (others on request)				
Electrical Connection: Cable, DIN, Bendix, Cannon.				
Others on application				

Applications

The Model 2000's precision calibration.(digitally mapping the output to the specific application temperature and pressure conditions) make the 2000 the ultimate choice for any high accuracy barometric applications.

Model 2000 / 010307



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^{***}Analog outputs not available with "UC" pressure output