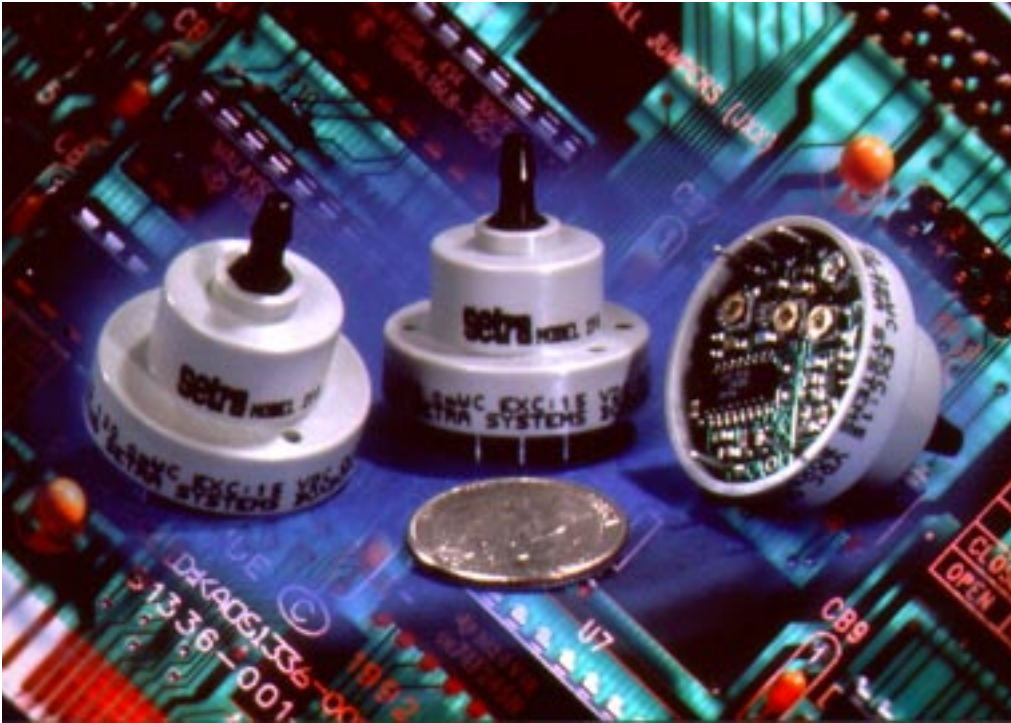


Model 210

Circuit Board-Mountable Pressure Transducer

Ranges: 0 to 1, 2, 5, 10, 15, 25, 50, 100 psig
0 to 15, 25, 50, 100, 150 psia



Setra's Model 210 is the ultimate in circuit board mountable pressure transducers. In addition to the convenience of quick PCB installations, the 210 offers OEM's wide media compatibility due to the stainless steel sensor construction and fully calibrated high level output. This eliminates the need for additional circuit and calibration labor costs!

Packaged in a compact plastic enclosure (1.25 in. dia. footprint), the Model 210 incorporates Setra's unique capacitance technology, known worldwide for its rock solid stability, accuracy and thermal performance. A custom ASIC circuit combined with a carefully engineered sensor

achieves unsurpassed reliability and a virtually EMI/RFI immune system. Setra can customize the Model 210 to accommodate various package and performance requirements.

Our pressure sensor products are not necessarily designed or manufactured for use as a "critical component" in a "critical device" as those terms are defined in the Medical Devices Subchapter contained in the Food and Drug Administration Rules, 21CFR800.

While we provide application assistance on all Setra products, both personally and through our literature, it is up to the customer to determine the suitability of the product in the application.

Pressure Ranges

0 psig to:	Proof Pressure (psig)	Burst Pressure (psia)	0 psia to:	Proof Pressure (psig)	Burst Pressure (psia)
1	2	250	15	30	500
2	4	250	25	50	500
5	10	500	50	100	500
10	20	500	100	200	500
15	30	500	150	300	500
25	50	500			
50	100	500			
100	200	500			

NOTE: Setra adheres to strict quality standards including ISO 9001 and ANSI-Z540-1. The calibration of this product is NIST traceable.

U.S. Patent nos. 4054833, 5442962

Applications

- Analytical Measurement and Control
- OEM

Features

- Fully signal conditioned
- High level output
- Excellent long term stability
- RFI/EMI immunity
- Easily customized package
- Optional excitations, outputs and accuracies
- Wide operating temperature range
- High signal to noise ratio

TEESING

ISO
9001
Certified

setra

Model 210 Specifications

Performance Data

Accuracy RSS	±1.0% FS
Non-Linearity, BFL	±0.60% FS
Hysteresis	±0.30% FS
Non-Repeatability	±0.10% FS

Thermal Effect

Zero shift %FS/100°F (%FS/50°C)	<±2.0 (<±1.8)
Span Shift %FS/100°F (%FS/50°C)	<±1.5 (<±1.4)
Stability	0.5% FS/yr.

Pressure Media

Gases compatible with 300, 17-4 series stainless steel, nylon, polyester and silicone.

Electrical Data (Voltage)

Circuit	3-wire (+in, +out, common)
Excitation	12VDC (10.8 - 18.4VDC)
Output at Zero Pressure	0.5VDC

Electrical Data (Cont'd)

Output at Full Range Pressure	4.5VDC
Full Scale Output	4.0VDC
Output Impedance	<100 ohms
Response Time	10 msec.

Dimensional Data

Case	Fire retardant glass filled polyester
Sensor	17-7 stainless steel for range ≥ 5 psi. Other ranges, 300 series stainless steel
Pressure Fitting	3/16 O.D. barbed nylon pressure fitting for 1/8" I.D. tubing.
Weight (approx.)	0.5 ounces
Electrical Connection	Solder pins, 0.030" round on 0.2" centers

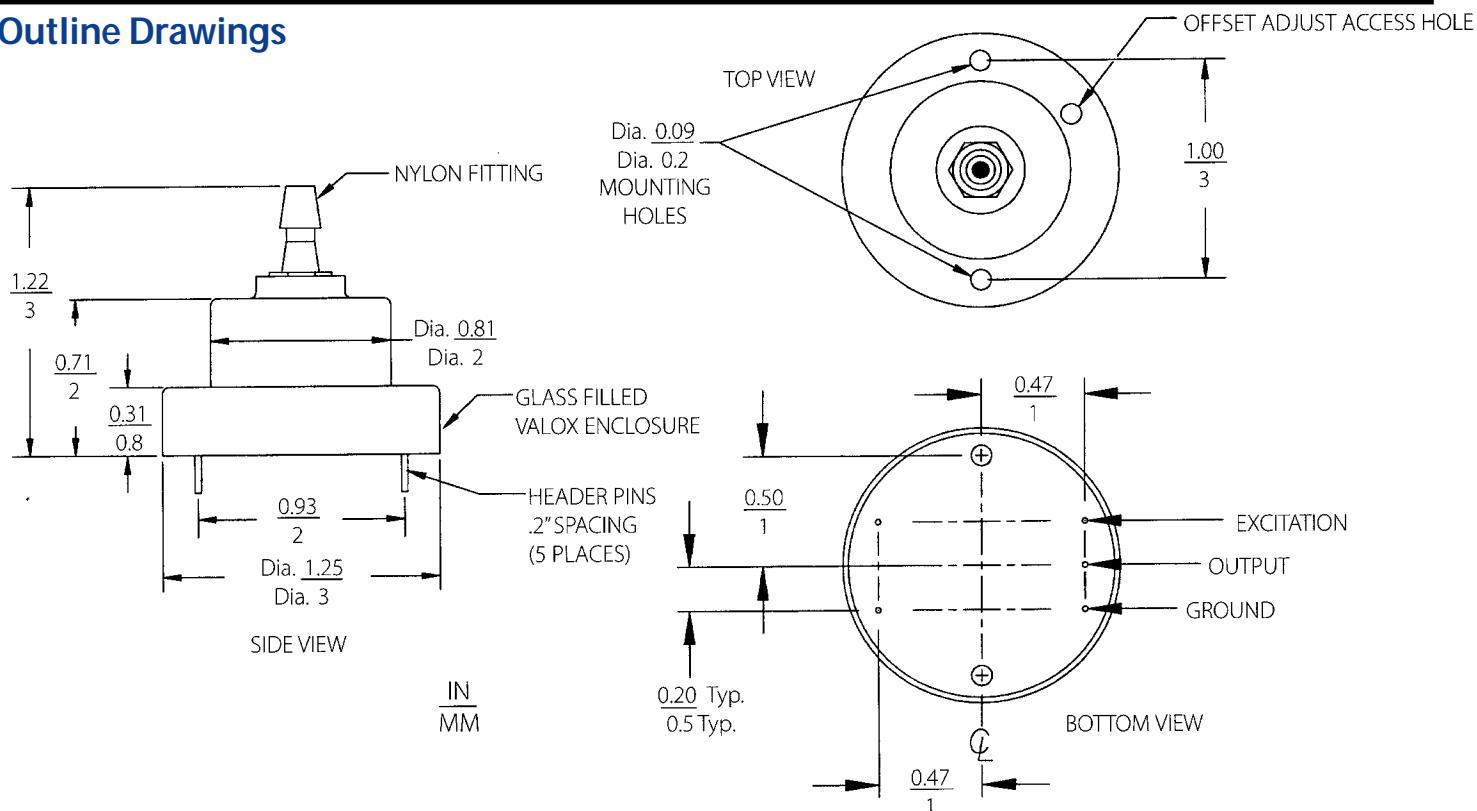
Environmental Data

Temperature	
Operating	-4 to 176°F (-20 to 80°C)
Storage	-40 to 185°F (-40 to 85°C)
Humidity	
Operating	0 to 95% RH non-condensing
Storage	0 to 98% RH non-condensing
Vibration	Operating, <5g
Shock	<100g
Altitude	
No effect on accuracy in operating barometric pressure conditions of 600 to 800 mmHg.	

Options

Accuracy	±0.5% FS and ±0.25% FS
Excitation/Output	See ordering information listed below.

Outline Drawings



ORDERING INFORMATION

Code all blocks in table.

Example: Part No. 2101001PG1B35C1G for a 210 Transducer, 0 to 1 psig range, barbed fitting, 12 VDC excitation, 0.5 to 4.5 VDC output with PC board mountable pins and an accuracy of ±1.0%.

2	1	0	1	-		-		-		-	C	1	-	G			
Model				Range				Pressure		Pressure Fittings		Exc./Output		Elec. Termination			
2101 = 210				001P = 1 PSI 002P = 2 PSI 005P = 5 PSI 010P = 10 PSI 015P = 15 PSI 025P = 25 PSI 050P = 50 PSI 100P = 100 PSI 150P = 150 PSI				G = Gauge A = Absolute* *15, 25, 50, 100, 150 PSI ranges only for absolute.		1B = Barbed fitting 4B = 90° Barbed fitting		35 = 12 VDC/0.5-4.5 VDC Options 23 = 24 VDC/0.2-5.2 VDC 27 = 24 VDC/1-5 VDC 28 = 24 VDC/1-6 VDC 38 = 12 VDC/1-6 VDC 45 = 5 VDC/0.5-4.5 VDC		C1 = PC Board Mountable pins		G = ±1.0% Options D = ±0.05% F = ±0.25%	

Please contact factory for versions not shown.

