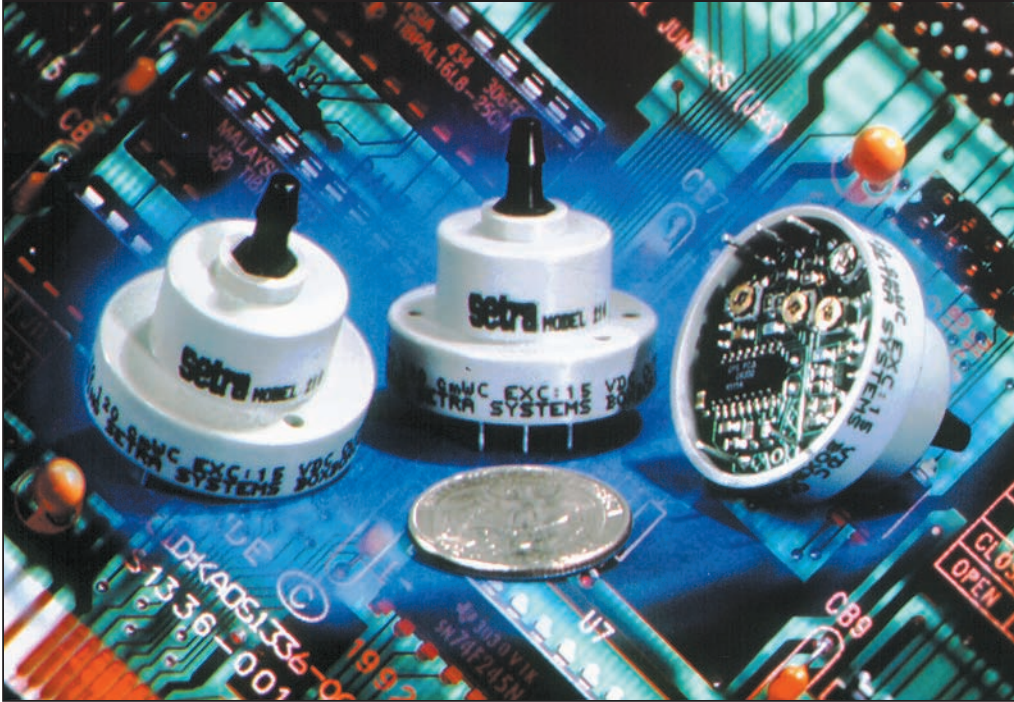


## Model 210

### Circuit Board-Mountable Pressure Transducer

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



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 wide media compatibility with its stainless steel sensor construction. The calibrated high level output eliminates the need for additional circuit and calibration labor costs.

Packaged in a compact plastic enclosure (1.25" diameter footprint), the

Model 210 incorporates Setra's unique capacitance technology, known worldwide for its solid stability, accuracy and thermal performance. With the custom ASIC circuit and capacitive sensor, the Model 210 performs with reliability and EMI/RFI immunity. The Model 210 can be customized to accommodate various package and performance requirements, and is designed for OEM applications.

#### Pressure Ranges

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

NOTE: 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.

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, 6205861 B1.

#### Applications

- Analytical Measurement and Control
- OEM Medical Systems

#### 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
- Meets CE Conformance Standards

*When it comes to a product to rely on - choose the Model 210. When it comes to a company to trust - choose Setra.*



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# setra

## 800-257-3872

# Model 210 Specifications

## Performance Data

	Standard	Optional	
Accuracy RSS	±1.0% FS	±0.5% FS	±0.25% FS
Non-Linearity, BFL	±0.98% FS	±0.48% FS	±0.22% FS
Hysteresis	0.20% FS	0.10% FS	0.10% FS
Non-Repeatability	0.05% FS	0.05% FS	0.05% 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)
Long Term Stability	0.5% FS/YR.

## Electrical Data

Circuit	3-Wire (+In, +Out, Common)
Excitation*	24 VDC (21.6 to 32) 12 VDC (10.8 to 18.4) 5 VDC (4.9 to 8.1)

\*See Ordering Code below for excitation/output availability.

## Electrical Data (Cont'd.)

Output**	1 to 6 VDC 0.5 to 4.5 VDC 0.5 to 5.5 VDC
Output Impedance	<100 Ohms
Response Time	10 Milliseconds

\*\*Calibrated into a 50K ohm load or greater.  
Zero output factory set to within ±25 mV.  
Span (Full Scale) output factory set to within 50 mV.

## Dimensional Data

Case	Fire Retardant Glass-Filled Polyester
Sensor	17-7 Stainless Steel for Ranges ≥ 5 PSI. Other Ranges, 300 Series Stainless Steel
Pressure Fitting	3/16 O.D. Barbed Nylon Pressure Fitting for 1/8" I.D. Tubing.
Electrical Connection	Solder Pins, 0.030" Round on 0.2" Centers
Weight (approx.)	0.5 ounces

## Environmental Data

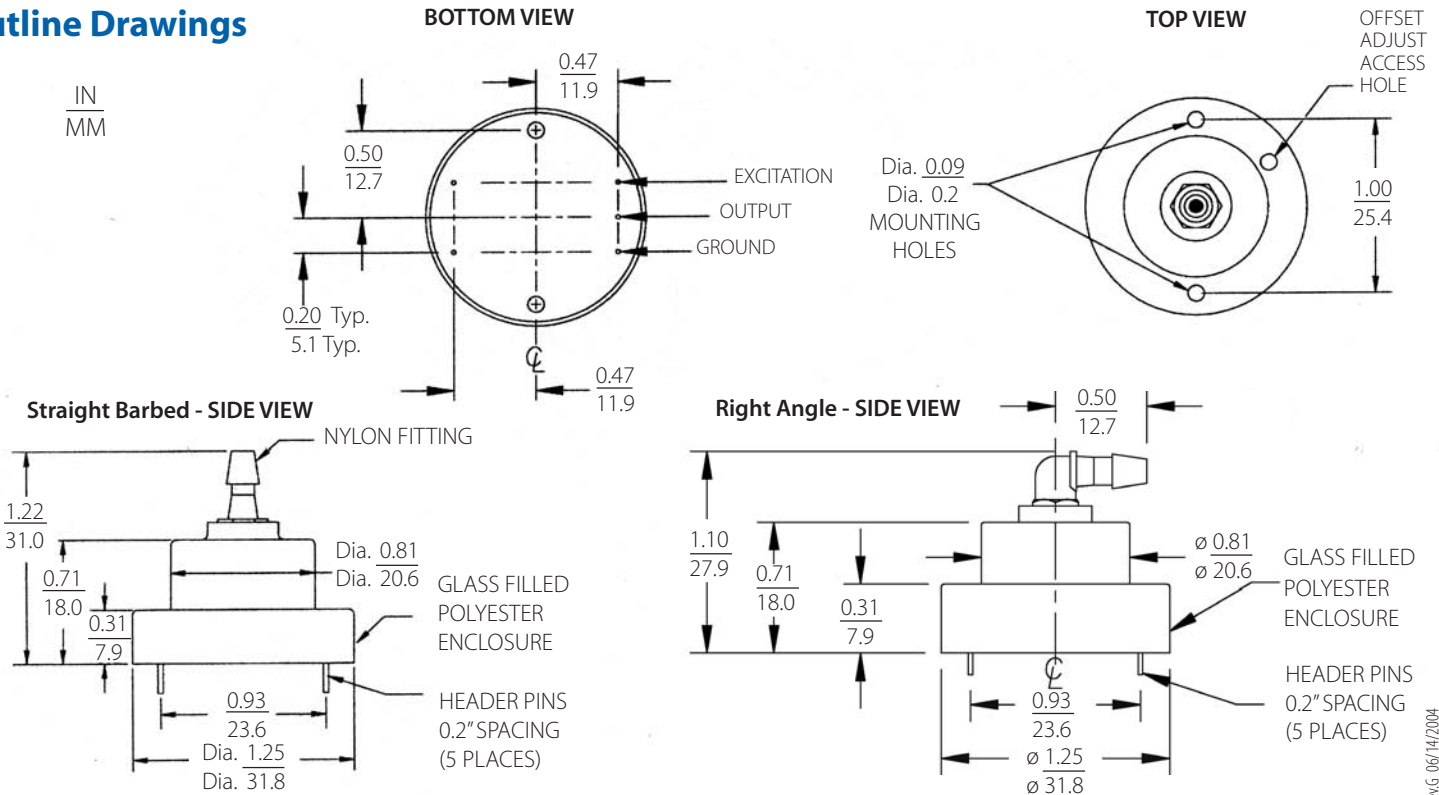
Temperature	
Operating	-4 to +176°F (-20 to +80°C)
Storage	-40 to +185°F (-40 to +85°C)
Humidity	
Operating	0 to 95% RH Non-Condensing
Storage	0 to 98% RH Non-Condensing
Vibration	5g Operating
Shock	<100g

## Pressure Media

Gases Compatible with 304 SS, 17-7 PH Series Stainless Steel, Nylon, Polyester and Silicone

Specifications subject to change without notice.

## Outline Drawings



## ORDERING INFORMATION

Code all blocks in table.

**Example:** Part No. 2101001PG1B35C1C 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	-	
<b>Model</b>	<b>Range</b>				<b>Pressure</b>	<b>Pressure Fittings</b>		<b>Exc./Output</b>		<b>Elec. Termination</b>		<b>Accuracy</b>		
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				G = Gauge	1B = Straight Barbed Fitting 1D = Right Angle Fitting		24 = 24 VDC/0.5-5.5 VDC 25 = 24 VDC/0.5-4.5 VDC 28 = 24 VDC/1-6 VDC 35 = 12 VDC/0.5-4.5 VDC 38 = 12 VDC/1-6 VDC 45 = 5 VDC/0.5-4.5 VDC		C1 = PC Board Mountable Pins		Standard C = ±1.0% FS	Options(w/Cal Cert) H = ±0.5% F = ±0.25%	
<b>Please contact factory for versions not shown.</b>														

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

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