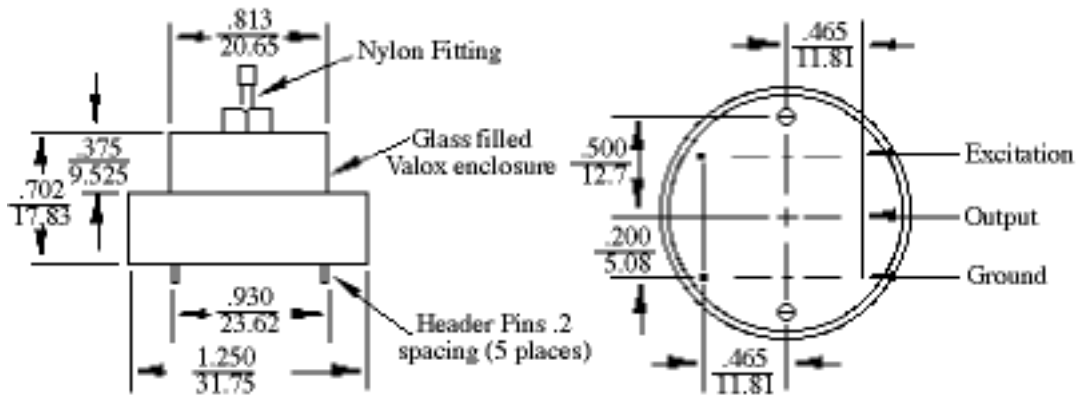




Operating Instructions 210 Series

The Setra Series 210 senses gauge (static) pressure and converts this pressure to a proportional electrical output.

Electrical Connections - The Model 210 (voltage output) transducer is supplied with 0.030 round solder pins on .2" centers. The Model 210 has a 0.5 to 4.5 VDC output as a standard which should be connected as follows:

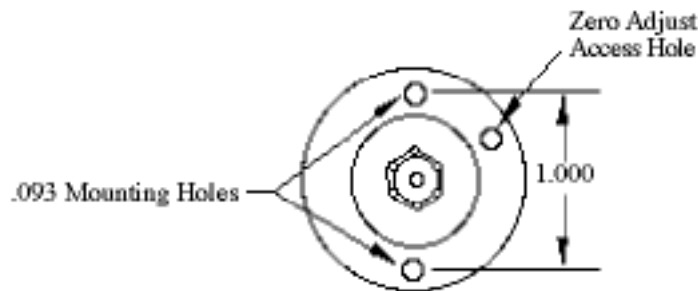


Mounting Electrical Connections - Solder pins 0.030 round solder pins on .2" centers.

Media Compatibility - These transducers are designed to be used with any gas or liquid compatible with 300 series stainless steel, polyester (glass filled), and silicone RTV.

Venting - The Model 210 is vented through the case to achieve best accuracy.

Zero Adjustment - With the pressure port open to atmosphere the zero output of the 210 may be adjusted. (shown below)



Model 210 Specifications

Pressure Ranges & Media	
Gage Pressure	0 to 1, 2, 5, 10, 25, 50, 100 PSIG
Media	Liquid and gases compatible with 300 series stainless steel, polyester (glass filled) & silicone RTV
Performance Data	
Accuracy (RSS)	±0.70% FS
Non-Linearity	±0.60% FS
Hysteresis	±0.30% FS
Non-Repeatability	±0.10% FS
Thermal Effects	
Zero Shift %FS/100°F (%FS/100°C)	<±2.0 (<±3.6)
Span Shift %FS/100°F (%FS/100°C)	<±1.0 (<±2.7)
Stability	0.5% FS/Yr
Environmental Data	
Temperature	
Operating	0 to 60°C
Storage	-40 to 85°C
Humidity	
Operational	0 to 95% RH non-condensing
Storage	0 to 98% RH non-condensing
Vibration	Operating <5g
Altitude	No effect on accuracy in operating barometric pressure conditions of 600 to 800 mmHg or storage pressure of 87 to 800 mmHg
Shock	<50g
Electrical Data	
Circuit	3-wire (+ in., +out common)
Excitation	See specific unit label
Output	See specific unit label
Output Impedance	<100 ohms
Response Time	10 msec., 63% FS
Dimensional Data	
Case	Fire retardant polyester
Sensor	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, 0.30" round on .2" centers
Ordering Information	
<p>Order as Model 210 pressure transducer. Please specify pressure range and options. Minimum quantities may apply to options.</p> <p><i>Specifications subject to change without notice.</i></p>	

RETURNING PRODUCTS FOR REPAIR

Please contact Setra (1-800-257-3872, 978-263-1400) before returning unit for repair to review information relative to your application. When returning a product to Setra, the material should be carefully packaged and shipped prepaid to:

Setra Systems, Inc.
159 Swanson Road
Boxborough, MA 01719-1304
Attn: Repair Department

To assure prompt handling, please supply the following information and include it inside the package of returned material:

1. Name and phone number of person to contact.
2. Shipping and billing instructions.
3. Full description of the malfunction.
4. Identify any hazardous material used with product.

Notes: Please remove any pressure fittings and plumbing that you have installed and enclose any required mating electrical connectors and wiring diagrams.

Allow approximately 3 weeks after receipt at Setra for the repair and return of the unit. Non-warranty repairs will not be made without customer approval and a purchase order to cover repair charges.

LIMITED WARRANTY AND LIMITATION OF LIABILITY

SETRA warrants its products to be free from defects in materials and workmanship, subject to the following terms and conditions:

Without charge, SETRA will repair or replace products found to be defective in materials or workmanship within the warranty period; provided that:

- a) the product has not been subjected to abuse, neglect, accident, incorrect wiring not our own, improper installation or servicing, or use in violation of instructions furnished by SETRA;
- b) the product has not been repaired or altered by anyone except SETRA for its authorized service agencies;
- c) the serial number or date code has not been removed, defaced, or otherwise changed; and
- d) examination discloses, in the judgment of SETRA, the defect in materials or workmanship developed under normal installation, use and service;
- e) SETRA is notified in advance of and the product is returned to SETRA transportation prepaid.

Unless otherwise specified in a manual or warranty card, or agreed to in a writing signed by a SETRA officer, SETRA pressure and acceleration products shall be warranted for one year from date of sale.

The foregoing warranty is in lieu of all warranties, express, implied or statutory, including but not limited to, any implied warranty of merchantability for a particular purpose.

SETRA's liability for breach of warranty is limited to repair or replacement, or if the goods cannot be repaired or replaced, to a refund of the purchase price. SETRA's liability for all other breaches is limited to a refund of the purchase price. In no instance shall SETRA be liable for incidental or consequential damages arising from a breach of warranty, or from the use or installation of its products.

No representative or person is authorized to give any warranty other than as set out above or to assume for SETRA any other liability in connection with the sale of its products.

159 Swanson Road, Boxborough, MA 01719-1304; 800-257-3872;
(978) 263-1400; Fax. 978-264-0292; WEB; www.setra.com/;
E-mail: transducer.sales@setra.com
Rev. B 6/24/96

