

5.0 RETURNING PRODUCTS FOR REPAIR

Please contact a Setra application engineer (800-257-3872, 978-263-1400) before returning unit for repair to review information relative to your application. Many times only minor field adjustments may be necessary. 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 or 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.

Calibration Services

Setra maintains a complete calibration facility that is traceable to the National Institute of Standards & Technology (NIST). If you would like to recalibrate or recertify your Setra pressure transducers or transmitters, please call our Repair Department at 800-257-3872 (978-263-1400) for scheduling.

6.0 WARRANTY AND LIMITATION OF LIABILITY

SETRA warrants its Model 278 Transducer products to the original consumer purchaser against defects for a period of two years from the date of sale by SETRA, as shown in its shipping documents. Without charge, SETRA will repair or replace products found to have manufacturing defects within the warranty period.

The serial number or date code must not have been removed, defaced or otherwise changed. SETRA must be notified in advance of any returns; any products returned to SETRA must be transportation prepaid. 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.

SS2123 Rev A 03/16/04

159 Swanson Road, Boxborough, MA 01719-1304
Tel: 800-257-3872/978-263-1400, Fax 978-264-0292
Email: sales@setra.com, Web: www.setra.com

Installation Guide

Model 278 Barometric Pressure Transducer

1.0 GENERAL INFORMATION

Your Setra barometric pressure transducer has been carefully calibrated before shipment to you, and it should be handled with the same care given any precision instrument.

The Model 278 barometric pressure transducer senses absolute pressure and converts this pressure to a proportional high level analog output. This pressure transducer has the following excitation and output.

<u>Excitation</u>	<u>Output</u>
9.5 to 28 VDC	0 to 2.5 VDC
9.5 to 28 VDC	0 to 5 VDC

Check the label on the unit to confirm the excitation and output.

2.0 MECHANICAL INSTALLATION

2.1 Media Compatibility

Model 278 transducers are designed to be used with air (up to 95% RH) or non-conducting gases. **Use with liquids or corrosive gases may damage the unit.**

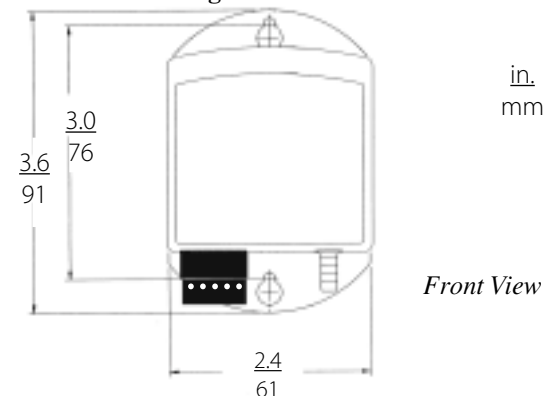
2.2 Environment

The operating temperature limits of the Model 278 are -40°C to +60°C (-40°F to +140°F).

2.3 Pressure Fittings

The Model 278 is supplied with a 1/8 inch barbed fitting for the pressure connection and typically installed with push-on tubing.

Dimensional Outline Drawing

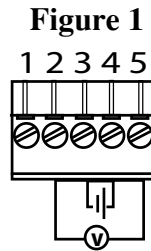


3.0 ELECTRICAL INSTALLATION

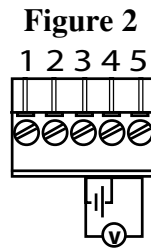
External access to the Model 278 electrical terminations is provided on the terminal strip at the bottom of the unit.

3.1 Voltage Output Units

The Model 278 barometric pressure transducer has five electrical terminals available for wiring. This unit can be wired as a 4 wire (Fig. 1) or 3 wire (Fig.2) device. *Note: Four wire connection is recommended to avoid the voltage drop in the negative power line, which can affect the accuracy of the pressure measurement.*

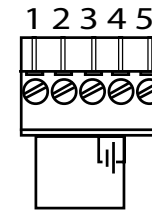


Four Wire Connection



Three Wire Connection

Figure 3



4.0. CALIBRATION

The 278 transducer is factory calibrated and should require no field adjustment.

No.	Terminal	Function
1	EXT TRIG	External Trigger Signal 0 VDC Sleep Mode 3-28 VDC Operating Mode
2	AGND*	Analog Signal Ground
3	GND*	Supply Ground (Negative Power)
4	SUPPLY	Supply (Positive Power)
5	VOUT	Voltage Output

*Both grounds (AGND and GND) are in the same electrical potential in the transducer.