6.0 EMC CERTIFICATION
This product complies with EN61326 Electrical Equipment for Measurement, Control and Laboratory use - EMC Requirements for Minimum Requirements and Industrial Locations. Special caution should be taken to meet Standard EN61000-4-5: 1995 Surge Immunity if any of the following conditions apply to the installation: The product is installed outside; all or any part of the cable is exposed to the outside; the cable is greater than 30 meters in length. In order to meet the Surge Immunity Requirements, the following conditions must be followed during installation:

1. Shielded cable must be used, and the shield must be tied to earth ground (not power supply ground) on at least one end of the cable shield/drain wire. The shield must be maintained all the way from sensor to the power supply.
2. If unshielded cable is used, an earth grounded metal conduit fitting can be used to replace the shielded cable.
3. For a sensor with a metal body or enclosure, the body/enclosure must be grounded to earth. If a protective metal housing is used, the metal housing should be grounded to earth.
4. A protective plastic housing is used, the housing must be able to withstand at least 2 KV from the housing to earth ground, without damaging the circuit.

7.0 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.

8.0 WARRANTY AND LIMITATION OF LIABILITY
SETRA warrants its Model 269 products to the original consumer purchaser against defects for a period of one year 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.
4.0 CALIBRATION

The 269 transducer is factory calibrated and should require no field adjustment if mounted in a vertical position. Whenever possible, any zero and/or span offsets should be corrected by software adjustment in the user’s control system. However, fine zero and span adjustments can be made thru a calibration secure access key. The Model 269 transducer zero offset is trimmed in the vertical position (pressure ports pointing upward) prior to shipping from factory.

4.1 Zero/Span Adjustments with Security Key
To make secure zero and span adjustments, remove detachable process head by pressing and pulling on side tabs. Install calibration security key in-place of process head. (See Diagram 3).

4.2 Zero Adjustment (Current Output)
While applying zero differential pressure, zero may be adjusted by pressing the cal button to tare zero. If fine adjustment is needed on analog output, depress cal button while turning the encoder.

4.3 Span Adjustment (Current Output)
Span or full scale output adjustments should only be performed by using an accurate pressure standard (electronic manometer, digital pressure gauge, etc.) with at least comparable accuracy to the 269 transducer. With full range pressure applied to the high pressure port (reference port open to atmosphere), the span may be adjusted by pressing the cal button to set span. If fine adjustment is needed on span, and control pressure is applied at least 75% of full range, turn encoder until target output is achieved.

4.4 Turn Down Adjustment (Option)
For units with optional turn-down gain, turn down is easily adjusted through use of slider switch located on side of unit. (See Diagram 1)

5.0 MODEL 269 PERFORMANCE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Performance</th>
<th>Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy Class (FS)</td>
<td>±0.25% FS ±0.50% FS ±1.0% FS</td>
</tr>
<tr>
<td>Non-Linearity</td>
<td>±0.15% FS ±0.35% FS ±0.75% FS</td>
</tr>
<tr>
<td>Terminal Point</td>
<td>±0.10% FS ±0.25% FS ±0.55% FS</td>
</tr>
<tr>
<td>BFSL</td>
<td>±0.05% FS ±0.05% FS ±0.10% FS</td>
</tr>
<tr>
<td>Hysteresis (Typical)</td>
<td>±0.05% FS ±0.05% FS ±0.10% FS</td>
</tr>
<tr>
<td>Non-Repeatability</td>
<td>±0.05% FS ±0.05% FS ±0.10% FS</td>
</tr>
</tbody>
</table>

**Thermal Effects**
- **Compensated Range °F** 20 to +140
- **Zero Shift %FS/°F** 0.01% 0.02% 0.03%
- **Span Shift %FS/°F** 0.01% 0.02% 0.03%
- **Maximum Line Pressure** ±15 in. W.C.
- **Overpressure** ±2 psi
- **Long-term Stability** 0.5% FS/1 Yr

**Position Effect**
- **Range** To 0.1 in. WC To 0.5 in. WC To 1.0 in. WC To 2.5 in. WC To 5 in. WC
- **Zero Offset (%FS/G)** 0.14

**Electrical**
- Calibrated at factory with a 24 VDC loop supply and a 250 ohm load.
- Zero output factory set to 4±.04 mA for unidirectional pressure ranges and 12±.04 mA for bidirectional ranges in vertical position.
- Span factory set to 16±.04 mA.