



## **SEN-100 SERIES INSTALLATION AND CALIBRATION INSTRUCTIONS**

### **1.0 INSTALLATION:**

Install the transducer according to the transducer's pinout drawing and technical specification prior to subjecting the transducer to operating pressure and temperature.

### **2.0 ROOM TEMPERATURE CALIBRATION METHODS (TWO):**

2.1 METHOD 1, Calibration without a Pressure Calibrator.

- 2.1.1 With temperature at room ambient (~80°F) and with zero pressure applied, adjust the "Zero" pot to read 0 psi. (Follow the Pressure Indicator Setup Procedures, if applicable).
- 2.1.2 Short RCal (Calibrating Resistor) pins together and adjust span to read 80% of Full Scale Pressure. If the Pressure Indicator offers an automatic setup with the use of RCal then follow the Pressure Indicator Setup Procedures.
- 2.1.3 Repeat steps 2.1.1 to 2.1.2 as necessary to fine tune adjustment.

2.2 METHOD 2, Calibration with a Pressure Calibrator.

- 2.2.1 With temperature at room ambient (~80°F) and with zero pressure applied, set indicator "zero" to 0 psi (Follow Pressure Indicator Setup Procedures).
- 2.2.2 Apply full-scale pressure with Pressure Calibrator to transducer and adjust indicator to read 100% of Full Scale Pressure (Follow Pressure Indicator Setup Procedure).
- 2.2.3 Repeat steps 2.2.1 to 2.2.2 as necessary to fine tune adjustment.

### **3.0 OPERATING TEMPERATURE ZERO CALIBRATION:**

- 3.1 Adjust machine temperature to operating temperature and allow at least 30 minutes for the transducer to reach thermal equilibrium.
- 3.2 After another 30 minutes soak time, reset "zero" by following the Pressure Indicator Setup Procedure. Make sure there is no pressure at the barrel.
- 3.3 Transducer is now ready to use.
- 3.4 ADJUST zero occasionally to insure more accurate measurements.  
ADJUST span ONLY at room ambient temperature (~80°F) per section 2.0