CALIBRATION INSTRUCTIONS
POSITRAN MODEL V051.

NOTE: POSITRAN MODELS ARE FACTORY CALIBRATED AND SHOULD ONLY BE RECALIBRATED IF NECESSARY!

1. Instruments needed: one multimeter to read d.c. and a.c. voltages;
   one ammeter to read currents up to 50 mAdc;
   one small screwdriver.

2. Verify that the power supply voltage meets the specifications, 115 Vac or 230 Vac.

3. Set the adjusting potentiometers **ZERO** and **SPAN** in mid-position (12 turns from either end).

4. Connect a 1000 Ohms feedback potentiometer to terminals 1 (**+10V**), 2 ($\mathbf{V_{in}}$), 3 (**-V**), and set it fully counterclockwise.

5. Connect a load resistor of 500 Ohms in series with an ammeter for reading up to 20 mAdc to terminals 4 (**-OUT**) and 5 (**+OUT**).

6. Apply the specified power supply voltage at the terminals 8 (**L1**) and 7 (**L2**).

7. Check for **+24 V** between terminal 3 (**-V**) and pin (**+**) of capacitor **C1.**

8. Check for **+10 V** between terminal 3 (**-V**) and 1 (**+10V**).

9. Check for about **+0.10 V** between terminals 3 (**-V**) and 2 ($\mathbf{V_{in}}$) when the feedback potentiometer is set fully counterclockwise or corresponds to minimum signal position of the actuator. Adjust the **ZERO** potentiometer for **0 Vdc** or **1 Vdc** reading on the voltmeter, depending on application.

10. Check for about **+10 V** between terminals 3 (**-V**) and 2 ($\mathbf{V_{in}}$) when the feedback potentiometer is driven fully clockwise or corresponds to maximum signal position of the actuator. Adjust the **SPAN** potentiometer for **5 Vdc** reading on the voltmeter.

11. If it is necessary, repeat the adjustments performed at steps 9 and 10.