

INSTALLATION PROCEDURE

FOR THE BGI

POWERED BAR GRAPH

INDICATOR

BGI POWERED PROCESS BAR GRAPH INDICATOR CALIBRATION PROCEDURE

Step 1 Installation in the panel.

The instrument is normally mounted through a panel cut out of **92mm high x 45mm wide** and held in place by screw clamps that are fixed to the side of the instrument and tensioned to the rear of the panel by tightening of the screw.

If the instrument is a dual unit it is mounted through a panel cut out of 93mm high x 93mm wide.

To mount in the panel the instrument should be pushed through the panel cut out from the front. Then the screw clamps are fixed to the side of the instrument by tightening of the adjustment screw from the rear of the panel.

Step 2 Electrical Connections.

Important note: Before connecting electrical power **please read the label** which is fixed to the top of the instrument case **to determine whether the instrument requires an AC or DC power supply.** If DC power is specified the instrument incorporates a DC to DC converter with 500 volts isolation from input to output.

If AC is required connect power to:

- (a) Terminal 8 is 240VAC supply
- (b) Terminal 9 is neutral supply
- (c) Terminal 10 is ground supply

If DC is required connect power to:

- (a) Terminal 8 is 24VDC supply
- (b) Terminal 9 is 0VDC supply
- (c) Terminal 10 is ground supply

Step 3 mA Input Connection

If the input signal to be measured is a 4-20mA milliamp signal then connect the positive to terminal two (2) and the negative to terminal one

Step 4 mV, volts or resistance Input Connection

If the input signal to be measured is millivolts, volts or milliamp signal then connect the positive to terminal three (3) and the negative to terminal one

Step 5 RTD input connection

If using a 3 wire RTD connect high (+) to terminal 2, low (-) to terminal 1 and return to terminal 3. If the RTD being used is a 2 wire device then connect as above but link terminal 3 to terminal 1.

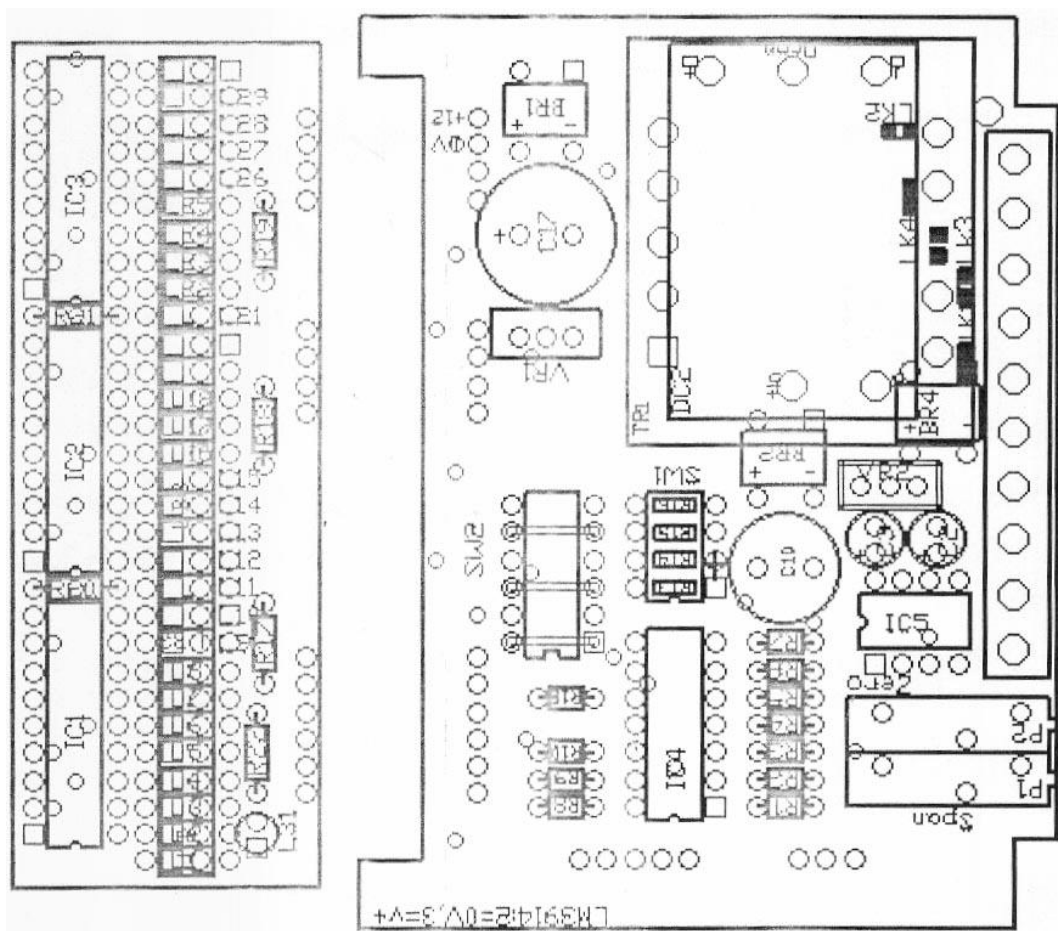
Step 6 using the 24VDC loop supply for a 2 wire transmitter or proximity switch

(a) If it is intended to use the optional 24VDC 2 wire transmitter power supply, and then connect the positive of the 2 wire transmitter to terminal 4 and the negative of the 2 wire transmitter to terminal 2. **Note: in this case terminal one (1) is not used**

Step 6 Display Calibration

The display calibration is factory set for a 4-20mA input = 0-30. If no change is required to the display calibration, it is not necessary to continue with this procedure.

- (a) Insert minimum input signal (for the range selected) and adjust zero potentiometer for the minimum display value (first bar is illuminated).
- (b) Insert maximum input signal (for the range selected) and adjust span potentiometer for the maximum display value (all bars are illuminated).
- (c) Repeat steps (a) and (b) until the unit displays the correct value.



BGI Layout