

# **INSTALLATION PROCEDURE**

**FOR THE ISC**

**SIGNAL CONVERTER**

**With**

**0.2 to 1.0 ampere output**

## ISC SIGNAL: CONVERTER CALIBRATION PROCEDURE

### **Step 1 - Electrical Connection**

Before connecting to supply voltage check with the label for the supply voltage the instrument has been configured for. The instrument incorporates a 24VDC loop power supply. If the instrument is an **AC powered** unit then connect power to:

- (a) Terminal 15 is **VAC ACTIVE** supply
- (b) Terminal 16 is **VAC COMMON** supply

If the instrument is configured for **DC power** operation then:

- (a) Terminal 15 is **VDC ACTIVE** supply
- (b) Terminal 16 is **VDC COMMON** supply

### **Step 2 - mA, mV or volts input connection**

If the input signal to be measured is milliamp signal then connect the positive to terminal two (2) and the negative to terminal one (1).

### **Step 3 - Using the 24VDC loop supply**

If it is intended to use the 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: terminal one (1) is not used.**

### **Step 4 - Analogue output calibration**

The instrument incorporates **a 0.2 to 1.0 Ampere DC output on terminals (4) positive and (5) negative. An external 24VDC power supply is required and should be connected to the signal converter on terminals (4) positive and (7) negative.**

- (a) Insert minimum input signal (specified on the instrument label) and adjust zero potentiometer for minimum output.
- (b) Insert maximum input signal (specified on the instrument label) and adjust span potentiometer for maximum output.
- (c) Repeat steps (a) and (b) until the instrument gives the correct value.

Terminal Number	Function	Terminal Number	Function
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1	Input Low (-)	9	not used
2	Input high mA(+)	10	not used
3	Input high 0-10V(+)	11	not used
4	24VDC loop supply and 1.0 ampere out positive(+)	12	not used
5	Ampere output (-) and external mosfet drain	13	not used
6	external mosfet source	14	not used
7	External 0VDC	15	240VAC supply
8	External mosfet gate	16	Neutral supply

Your instrument is now calibrated and ready for operation.

