# 4~20mA LOOP POWERED **INDICATOR**

A loop powered indicator giving an accurate, zero corrected indication of 4-20mA loop current. Calibration is by two 20-turn cermet potentiometers which allow sensitive adjustment of the instrument. The meter is housed in a robust carrier, which can be bolted in place or panel mounted using the low profile bezel and clips provided.

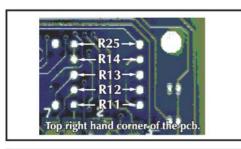
19mm (0.75 ') Digit Height

**Programmable Decimal Points** 



For alternative scaling to the standard 0 - 1000, cut Link 8 and short Link 7. Add two resistors R12 and R13 which will set the basic scale of the meter. The highest practical value for the R12 and R13 series combination is 12R. To select your desired scaling, use the following formula: R12 + R13 = Full Scalereading at 20mA

Re-calibrateasnecessary.

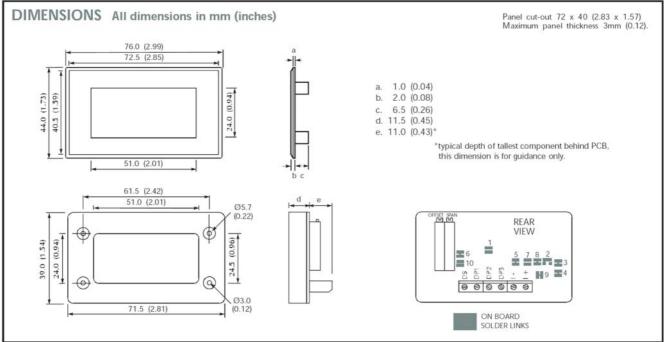


Standard Meter					
Specification	Min.	Тур.	Max.	Unit	
Accuracy (overall error) *	0.05		0.1	%(±1 count)	
Linearity			±1	count	
Sample rate		3		samples/sec	
Operating temperature range	0		50	°C	
Temperature stability		100		ppm/°C	
Loop Volt Drop	3.9	4.3	4.8	V	

<sup>\*</sup>To ensure maximum accuracy, re-calibrate periodically.

# CONNECTOR SOURCING GUIDE

METHOD Screw Terminals - No Connector Required





# **TERMINAL FUNCTIONS**

1. I+	Positive current input.
2. I-	Negativecurrent input.
3. DP3	1.000 7
4. DP2	10.00 – Decimal pointinputs.
5. DP1	100.0
6. DS	Decimal Point select. Connecttorequired DP input to display decimal point.

## CALIBRATION

 $The meter is supplied calibrated to read \,000 \,for \,4mA \,loop current and 1000 \,for \,20mA.$ 

To re-calibrate:

- 1. Apply 4mAtoI+/I-and adjust 'OFFSET' to read 000.
- 2. Apply 20mAand adjust 'SPAN' to read 1000.
- 3. Repeatsteps1and2untilthereisnomoreadjustmentof 'SPAN' and 'OFFSET' required to give desired readings.

## **SAFETY**

To comply with the Low Voltage Directive (LVD 93/68/EEC), input voltages to the module  $\dot{s}$  pins must not exceed 60Vdc. If voltages to the measuring inputs do exceed 60Vdc, then fit scaling resistors externally to the module. The user must ensure that the incorporation of the DPM into the user  $\dot{s}$  equipment conforms to the relevant sections of BSEN 61010 (Safety Requirements for Electrical Equipment for Measuring, Control and Laboratory Use).

