No.:695 - Page 1 of 2

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.

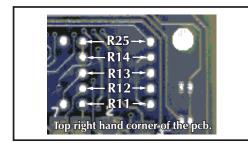
- **19mm** (0.75") Digit Height
- Programmable Decimal Points
- Low Volt Drop
- Simple Screw Terminal Connections



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:  $R12 + R13 = \underline{Full \, Scale \, reading \, at \, 20mA}$ 

160

Re-calibrate as necessary.



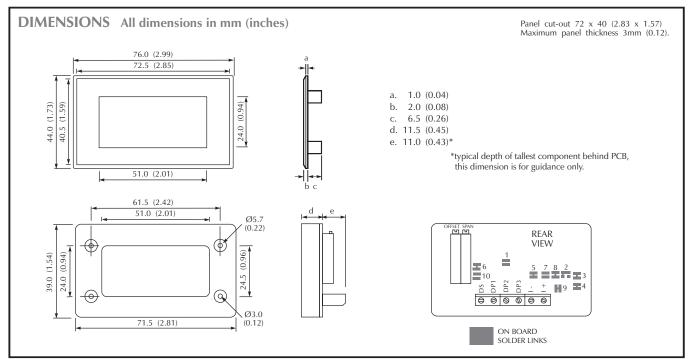


| Stock Numb Standard Meter DPM 9 |      |      |      |             |
|---------------------------------|------|------|------|-------------|
| Specification                   | Min. | Тур. | Max. | Unit        |
| Accuracy (overall error) *      | 0.05 |      | 0.1  | %(±1 count) |
| Linearity                       |      |      | ±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



Specifications liable to change without prior warning

DPM 942

Issue 7

November/2006

M.C.

Applies to DPM 942/3



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### **TERMINAL FUNCTIONS**

| 1. I+  | Positive current input.      |    |  |
|--------|------------------------------|----|--|
| 2. I-  | Negative current input.      |    |  |
| 3. DP3 | 1.000                        |    |  |
| 4. DP2 | 10.00 - Decimal point inputs | š. |  |
| 5 DP1  | 100.0                        |    |  |

## **CALIBRATION**

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

To re-calibrate:

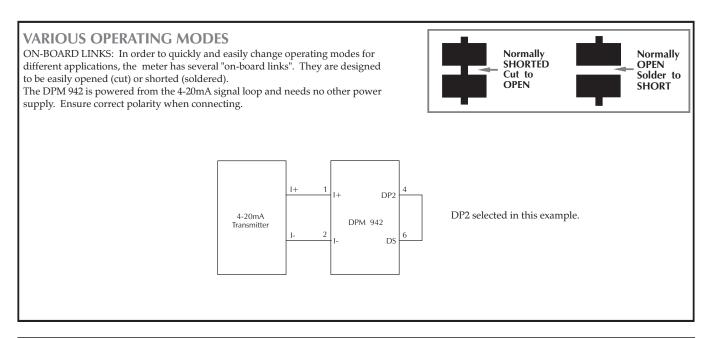
6. DS

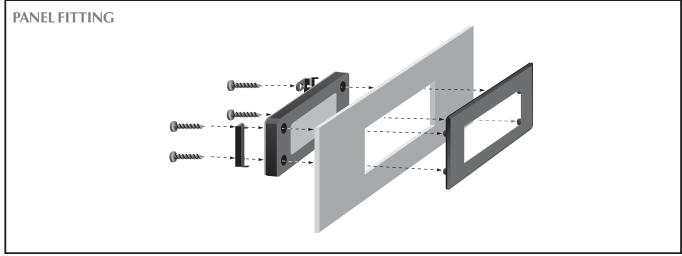
- 1. Apply 4mA to I+/I- and adjust 'OFFSET' to read 000.
- 2. Apply 20mA and adjust 'SPAN' to read 1000.
- 3. Repeat steps 1 and 2 until there is no more adjustment of 'SPAN' and 'OFFSET' required to give desired readings.

Decimal Point select. Connect to required DP input to display decimal point.

# **SAFETY**

To comply with the Low Voltage Directive (LVD 93/68/EEC), input voltages to the module'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's equipment conforms to the relevant sections of BS EN 61010 (Safety Requirements for Electrical Equipment for Measuring, Control and Laboratory Use).





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