DPM 125

This compact LCD DPM is ideally suited for low or high volume applications. It features an exceptionally large display in a miniature package. The meter will plug directly into a SIL socket or can be panel mounted using the snap in bezel provided. The low profile bezel incorporates a flat reverse printed window giving a superb appearance that cannot be damaged or rubbed of by contact.

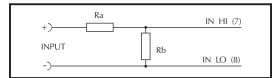
- () 12.5mm (0.5") Digit Height
- Logic Selectable Decimal Points
- Auto-zero
- Auto-polarity
- **@** 200mV d.c Full Scale Reading (F.S.R.)
- **()** Low Battery Indication

SCALING

NOTE

Two resistors may be used to alter the full scale reading of the meter - see table.

Note that the meter will have to be re-calibrated by adjusting the calibration pot.



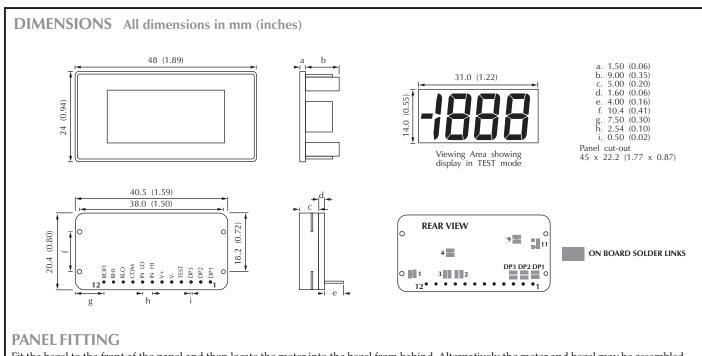
Required F.S.R.	Ra	Rb
2V	910k	100k
20V	1M	10k
200V	1M	1k
2kV Note	10M	1k
200μΑ	0R	1k
2mA	0R	100R
20mA	0R	10R
200mA	OR	1R

Ensure Ra is rated for high voltage use.



Standard Meter			S	tock Number DPM 125
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
Supply voltage (V+ to V-)	7.5	9	14	V
Supply current		150		μΑ
Input leakage current ($Vin = 0V$)		1	10	рА

* To ensure maximum accuracy, re-calibrate periodically.



Fit the bezel to the front of the panel and then locate the meter into the bezel from behind. Alternatively the meter and bezel may be assembled before fitting into the front of the panel but care must be taken not to use excessive force. Finally fit the window into the front of the bezel.



LASCAR ELECTRONICS LTD. MODULE HOUSE, WHITEPARISH, WILTSHIRE SP5 2SJ UK TEL: +44 (0)1794 884567 FAX: +44 (0)1794 884616 E-mail: sales@lascar.co.uk

LASCAR ELECTRONICS INC. 4258 WEST 12th STREET, ERIE, PA 16505 USA TEL: +1 (814) 835 0621 FAX: +1 (814) 838 8141 E-mail: us-sales@lascarelectronics.com

PIN FUNCTIONS

- 1. DP1 199.9 Connect to V+ to display required DP.
- 2. DP2 19.99 3. DP3 1.999
- Connect to V + to display segments as illustrated. It should not be operated for more than a few seconds as the d.c. voltage applied 4. TEST to the LCD may 'burn' the display. This pin is normally at 5V below V + and is the ground for the digital section of the meter. It can be used to power external logic up to a maximum of 1mA.
- 5. V-Negative power supply connection.
- 6. V+ Positive power supply connection.
- Positive measuring differential input. Analogue inputs must be no closer than 1V to either the positive or negative supply. 7. INHI 8. INLO
- The ground for the analogue section of the A/D converter, held actively at 2.8V (nom.) below V+. COM must not be allowed to sink 9. COM excessive current (>100 μ Å) by connecting it directly to a higher voltage.
- 10. RLO Negative input for reference voltage (can be connected to COM via Link 3).
- 11. RHI Positive input for reference voltage (connected via Link 1 to ROH).
- 12. ROH Positive output from internal reference.

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).

