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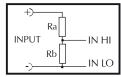
An ultra-low profile LCD meter using advanced components and construction techniques to provide an unrivaled combination of dual channel voltage measurements and low cost. This product is ideal for those applications where "matched" readings are required, e.g.: voltage and current, temperature and humidity, etc. Both measurement inputs share a common ground line, thereby reducing the number of connections to a minimum. The very low current consumption results in a long battery life and makes it especially suitable for portable equipment. A low battery warning circuit is fitted as standard. The 10-way pin header can be replaced by screw terminal blocks on request. Contact your nearest Lascar Sales Office for further details.

- 6.4mm (0.25") Digit Height
- Dual Channel
- **200mV** d.c. Full Scale Reading (F.S.R.)
- Selectable Decimal Points
- Auto-zero, Auto-polarity
- Common Signal Ground
- Annunciators

## **SCALING**

The full scale reading (E.S.R.) of each measurement channel may be altered by the addition of two resistors

Ra and Rb per channel- see table. Each measurement channel will require recalibration by adjusting CAL A and CAL B.

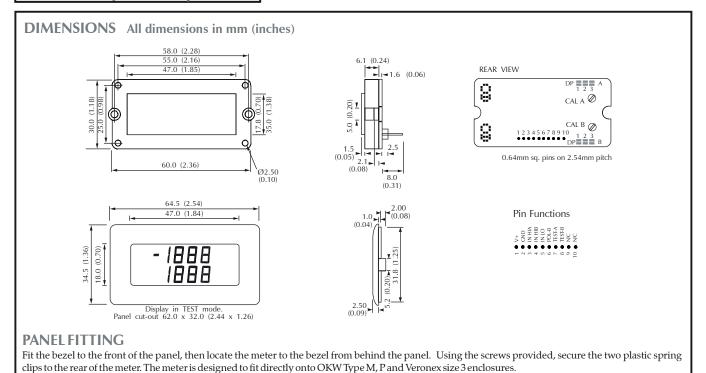


Required F.S.R.	Ra	Rb	
2V	910k	100k	
20V	1M	10k	
200V	1M	1k	
2kV	1M	100R	
200μΑ	0R	1k	
2mA	0R	100R	
20mA	OR	10R	
200mA	0R	1R	



Dual Channel Meter		tock Number PM 702S		
Specification (channel A or B)	Min.	Тур.	Max.	Unit
Accuracy (overall error)*		0.05	0.1	% (±1 count)
Linearity			±1	count
Full scale reading	-199.9		199.9	mV d.c.
Resolution		100		μV d.c.
Sample rate		3		samples/sec
Operating temperature range	0		50	°C
Temperature stability		100		ppm/°C
Supply voltage	3.5	5	7	V d.c.
Supply current		700		μΑ
Input leakage current (Vin= 0V)		1	10	рА

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



Specifications liable to change without prior warning

**DPM 702S** 

Issue 8

09/2020

Applies to DPM 702S/2



## PIN FUNCTIONS

1. V+ Positive power supply connection.

2. GND 0Vsupply connection.

3. INHIA Positive measuring differential input.

 $4. \ \ IN HIB \quad \ Positive measuring differential input. \quad - \ \ Analogue inputs must be no closer than 1V to the positive supply.$ 

5. IN LO Negative measuring differential input.6. POL-B Drive pin for channel B polarity sign.

Connect to V+ to invert polarity sign when measuring Voltage and Current simultaneously.

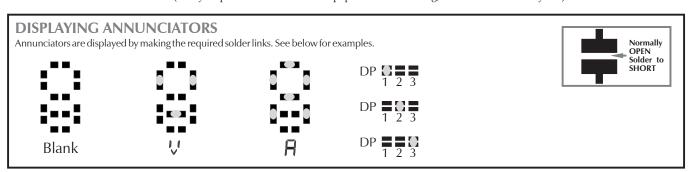
7. TEST-A Connect to V+ to display all Channel A segments, except annunciators.

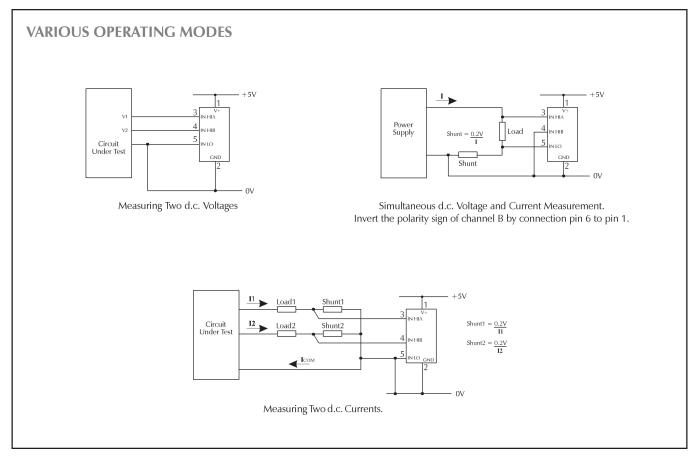
8. TEST-B Connect to V+ to display all Channel B segments, except annunciators.

9. N/C Not connected.
10. N/C Not connected.

## **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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