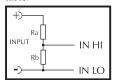
A very compact low-cost LED module ideally suited for applications where a bright display under all conditions is required. The DPM 340 is fitted with high efficiency, very low current LEDs and is housed in a carrier with integral snap-in bezel. The small size and low cost of the unit makes it very suitable for high volume OEM applications.

- 8mm (0.31") Digit Height
- **Programmable Decimal Points**
- Auto-zero, Auto-polarity
- 200mV d.c. Full Scale Reading (F.S.R.)
- **Very Low Current Consumption**



Two resistors Ra and Rb may be used in order to alter the full scale reading (F.S.R.) of the meter - see



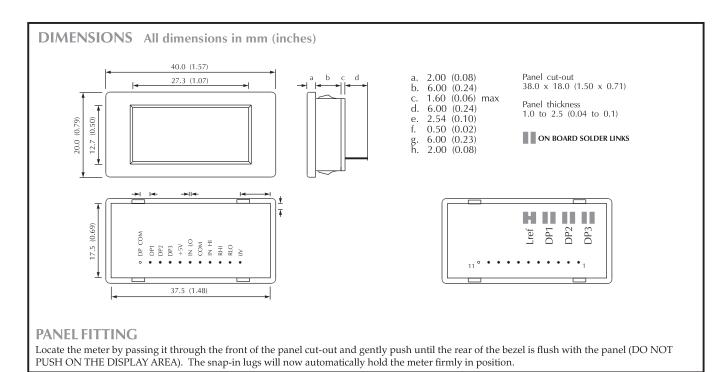
The meter will need recalibration by adjusting the on-board potentiometer.

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



Standard Meter			S	tock Number DPM 340
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		150		ppm/°C
Supply voltage	4.75	5	5.25	V
Supply current**		50	65	mA
Input leakage current ($Vin = 0V$)		1	10	рА

- * To ensure maximum accuracy, re-calibrate periodically.
- ** Depends on reading.





PIN FUNCTIONS

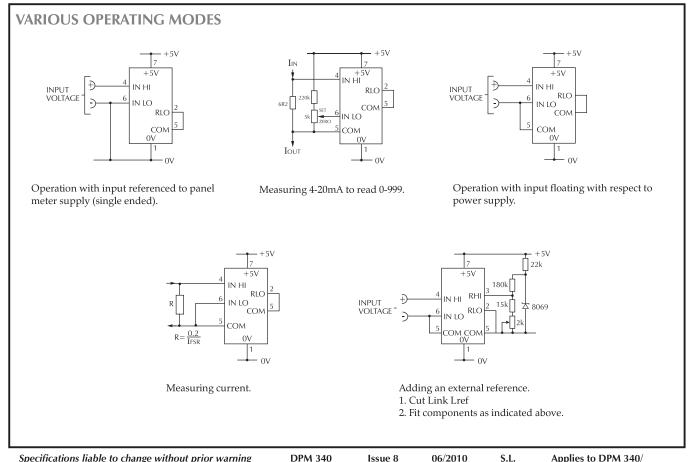
1.	0V	Negative power supply input.
2.	RLO	Negative input for reference voltage.
3.	RHI	Positive input for reference voltage.
4.	INHI	Positive measuring input.
5.	COM	The ground for the analogue section of the converter, held actively at 3.05V (nom) below +5V. This pin is for use only when the module
		is used with a fully floating supply.
		It should on no account be connected to any other terminations or circuitry except as specified in the relevant operating modes.
6.	INLO	Negative measuring input.
7.	+5V	Positive power supply input.
8.	DP3	1.999 7
9.	DP2	19.99 Connect required DP pin to DP COM.
10.	DP1	199.9
11.	DPCOM	Connect to required decimal point (DP1, DP2 or DP3) to illuminate.

This pin is not fitted as standard to the DPM 340.

 $\underline{Note:}\ A\ negative\ supply\ is\ generated\ internally\ and\ mirrors\ the\ positive\ supply. For\ example:\ if\ V+\ is\ +5V,\ then\ the\ internally\ and\ mirrors\ the\ positive\ supply\ if\ V+\ is\ +5V,\ then\ the\ internally\ and\ mirrors\ the\ positive\ supply\ if\ V+\ is\ +5V,\ then\ the\ internally\ and\ mirrors\ the\ positive\ supply\ if\ V+\ is\ +5V,\ then\ the\ internally\ in\ the\ internally\ in\ the\ in\ the\$ generated V-is-5V. When measuring with the input referenced to the same supply rail as that of the panel meter, then the limitations on the input range are (V - + 1.5V) to (V + -1.5V).

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).



Specifications liable to change without prior warning

DPM 340

Issue 8

06/2010

Applies to DPM 340/