The DPM 950S-EB-W features an enhanced black LCD and 200mV d.c. measurement range with auto-zero and auto-polarity. Decimal points are user selectable. The DPM 950S-EB-W features a negative rail generator which enables the meter to measure a signal referenced to its own power supply GND. Enhanced contrast negative mode LCD with white LED backlighting ensures excellent readability under all light conditions. The meter is housed in a robust carrier, which can be bolted in place or panel mounted using the bezel, window and clips provided.

- 4 19mm (0.75") Digit Height
- IDC Interface
- Auto-zero
- Auto-polarity
- **2**00mV d.c. Full Scale Reading (F.S.R.)
- Enhanced black LCD with LED Backlight
- Single Rail 5V d.c. Supply
- Alarm Annunciator



Two resistors Ra and Rb may be fitted in order to alter the full scale reading (F.S.R.) of the meter-see table. The meter will need re-calibration.

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

NOTE

Ensure that Link 10 is open if fitting Ra.



Standard Meter IP67 / NEMA 4X Be			Stock Number DPM 950S-EB-W BEZ 900-IP		
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		4.75	5	7.5**	V
Supply current	Display on		50	90	mA
	Display disabled		500		μΑ
Input leakage current (Vin = 0V)			1	10	рА

- * To ensure maximum accuracy, re-calibrate periodically.
- ** Operation of the meter beyond the maximum supply voltage may cause permanent damage to the meter.

Cable Mounting IDC Supplied With Product

** An external series resistor is required above 5V, see Applications. This specification linearly derates to 50mA @ 50°C

CONNECTOR SOURCING GUIDE

DIMENSIONS All dimensions in mm (inches) Panel cut-out 72 x 40 (2.83 x 1.57) Maximum panel thickness 3mm (0.12). 76.0 (2.99) 72.5 (2.85) 24.0 (0.94) 44.0 (1.73) Display in Test Mode RFAR 40.5 1.0 (0.04) 2.0 (0.08) c. 6.5 (0.26) d. 11.5 (0.45) 51.0 (2.01) 8.4 (0.33)* *typical depth of tallest component behind PCB, this dimension is for guidance only. 61.5 (2.42) 51.0 (2.01) Ø5.7 (0.22) **11**11 ON BOARD lacktriangledownSOLDER LINKS (96.0)39.0 (1.54) 24.5 SCALING RESISTORS REAR DP1 DP2 VIFW 71.5 (2.81)

METHOD



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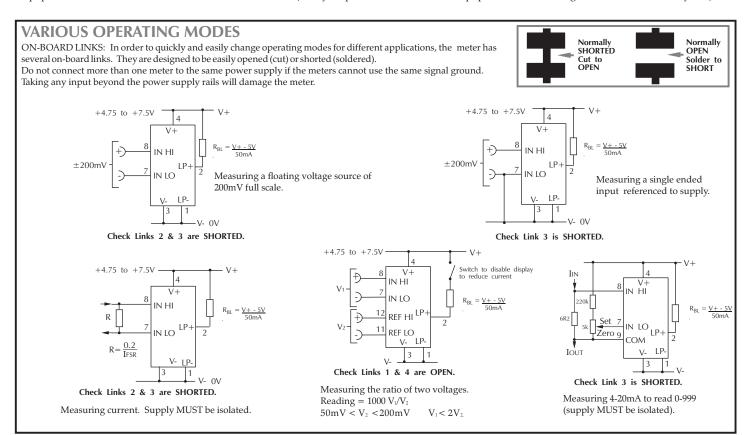
PIN FUNCTIONS

- 1. LP- Negative power supply to LED backlighting. Connect to 0V (Pin 3)
- 2. LP+ Positive power supply to LED backlighting. +5V connect to V+ for 5V supply, or via external resistor if V+ is above 5V. See Applications.
- 3. V- Negative power supply connection. 0V.
- 4. V+ Positive power supply connection. (+5V nom)
- 5. -5V N.C. (Output from negative rail generator circuit. This output is an inversion of V+).
- 6. TEST Connect to V+ to display all segments except DPs. It should not be operated for more than a few seconds as the D.C. voltage applied 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.
- 7. IN LO
 8. IN HI
 Positive measuring differential input. Analogue inputs must be no closer than 1V to either positive or negative supply. The negative supply of the DPM 950S is generated internally and mirrors the positive supply voltage.
- 9. COM Ground for the analogue section of the A/D converter, it is actively held at approximately 2.8V below V + and must not be allowed to sink excessive current (>100µA) by, for instance, connecting to a higher voltage.
- 11. REFLO Negative input for reference voltage. Can be connected to COM via link 3.
- 12. REF HI Positive input for reference voltage. Connected via link 1 to internal reference.
- 13. XDP Annunciator Drive Waveform, this is an inversion of the backplane.
- 14. DP1 199.9
- 15. DP2 19.99 Connect to V + to display required Decimal Point or short corresponding DP link.
- 16. DP3 1.999
- 18 & 32. BP LCD backplane drive waveform.
- 23. REF24. REF+
 Positive output from internal reference.
- 25. LO BAT Used to control the low battery annunciator externally, cut link 12 and take to V+ to turn on annunciator. The annunciator turn on point can also be set by adjusting the BAT potentiometer (R10), in which case do
 - not connect to this pin and leave link 12 intact.
- 26. REF BG Output from internal bandgap reference. (Factory fitted option.)
 27. A Alarm annunciator, cut link ALM and take to XDP to display.
- 27. Alarm annunciator, cut link ALM and take to XDP to display.
 28. Colon annunciator, cut link COL and take to XDP to display.
- 29. Polarity annunciator, connected via link 11 to polarity output of IC1. Cut link 11 and either take to XDP to
 - display or make other side of link 11 to hold off.
- 30. POL Polarity output of IC1.
- 31. CLK May be used to override the internal oscillator and control the sample rate. Link 14 must then be made.

Only Pins 1-16 are fitted, these functions are available but a connector is not provided.

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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