PRODUCT DESCRIPTION

The OEM 1B uses the latest miniaturisation techniques to produce a very compact 3 ½ digit LCD voltmeter. It is designed to be a drop-in component in most medium and high volume applications, ranging from personal instrumentation and integral sensor indicators to measurement probes. The meter features 8mm digit height, 3 decimal points, auto-polarity, auto-zero, 200mV full scale reading and a very low current consumption. Connection to the module is via two dual in line rows of pins.

FEATURES

- 8mm (0.31") Digit Height
- 200mV d.c. Full Scale Reading
- 150μA @ 7.5 to 14V Operation
- Auto-zero and Auto-polarity
- Selectable Decimal Points
- Very Compact Design



TYPICAL APPLICATIONS

- Personal Gas Monitoring
- Medical Instruments
- Measurement Probes
- Hand held instruments

ORDERING INFORMATION

	Stock Number
Standard Meter	OEM 1B

ELECTRICAL SPECIFICATIONS

Specification	Min.	Тур.	Max.	Unit
Accuracy (overall error) *		0.1		% (±1 count)
Linearity			<u>+</u> 1	count
Sample rate		2.5		samples/sec
Operating temperature range	0		50	°C
Temperature stability		100		ppm/°C
Supply voltage (V + to V-)	7.5	9	14**	V d.c.
Supply current		150		μA
Input leakage current (Vin = 0V)		1	10	pА

^{*} To ensure maximum accuracy, re-calibrate periodically.

Unless otherwise noted, specifications apply at $T_A=25$ °C, $V_{supply}=5$ Vd.c. ($f_{dock}=48$ kHz) and are tested with the module configured for floating input mode.

SAFETY

To comply with the Low Voltage Directive (LVD 93/68/EEC), input voltages to the module's pins must not exceed 60Vdc. The user must ensure that the incorporation of the panel meter 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

OFM 1 R

Issue 3

M.C.

Applies to OEM 1B/3



^{**} Operation of the meter beyond the maximum supply voltage rating may cause permanent damage to the meter.

DIMENSIONS All dimensions in mm (inches) 23.4 (0.92) 5.3 (0.21) 1.27 (0.05) +0.2(0.01) $16.4 \ (0.65)$ $\pm 0.4(0.02)$ 6.35 (0.25) 13.4 (0.53) (0.50)12.7 5.5 (0.22) 17.8 (0.70) 5.5 (0.22) 5.0 2.54 (0.10) (0.20)





