EMV 1125

Single Hole Mounting Meter

EMV 1125 is an easy to mount LCD digital panel meter. The user need only drill a single 5.5mm / 7_{132} hole in the panel. The module is fitted to the panel by locating its screw threaded stud through the hole, fitting the washer and tightening the nut provided. The module's 10 connecting wires pass through the hollow stud into the target application, where they can be easily soldered into place. The module features 200mV full scale input, auto-zero and auto-polarity. A separate screw terminal adaptor board (T/BLK-4) simplifies connection and calibration. A rubber seal is included, providing splashproof protection for the unit when fitted to the meter during installation.

- Single Hole Mounting
- **@** 200mV Full Scale Reading
- 12.5mm / 0.5" LCD Digit Height
- Auto-zero, Auto-polarity
- 10 Wire Connections
- Low Battery Warning
- **(b)** Screw Terminal Board Option (T/BLK-4)
- Contemposities Con



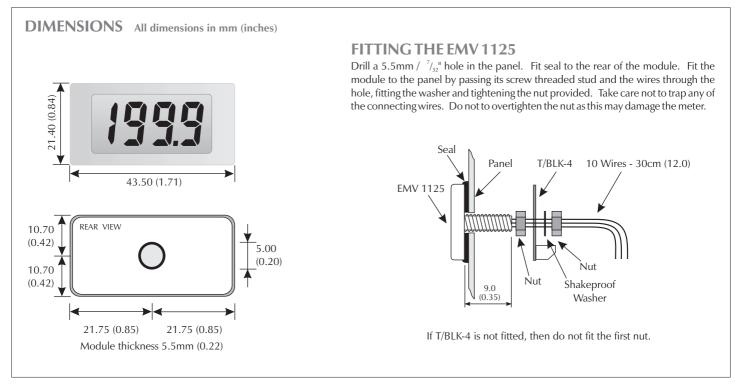
Easy Mounting Voltmeter Optional Screw Terminal Adaptor	Stock Number EMV 1125 T/BLK-4			
Specification	Min.	Тур.	Max.	Unit
Accuracy (overall error)*		0.05	0.1	% (±1 count)
Linearity			±1	count
Displayed reading	-1999		1999	
Resolution		0.1		mV d.c.
Sample rate		3		sample/sec
Operating temperature range	0		50	°C
Temperature stability		100		ppm/°C
Supply voltage	7.5	9	15	V d.c.
Supply current		150		μΑ

* To ensure maximum accuracy, re-calibrate periodically.

Unless otherwise noted, specifications apply at TA= 25° C, V_{supply}=9Vd.c. (f_{clock}=48kHz) and are tested with the module configured for fully 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 60Vd.c. If voltages to the measuring inputs do exceed 60Vd.c., then fit scaling resistors externally to the module. The user must ensure that the incorporation of the 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).





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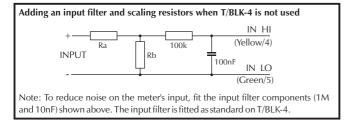
WIRE CONNECTIONS (EMV 1125) and SCREW TERMINAL FUNCTIONS (T.BLK-4) Black (BK) 0. V-Negative power supply connection. Brown (BR) The ground for the analogue section of the A/D converter, held actively at 2.8V (nom.) below V+. 1. COM COM must not be allowed to sink excessive current (>100µA) by connecting it directly to a higher voltage. V+2 Red (RD) Positive power supply connection. Orange(OR) Vref Connection for calibration circuit (see diagram below). 3. Positive measuring differential input. [IN HI and IN LO must be no closer than 1V to either the positive or negative supply. Negative measuring differential input.] (On T/BLK-4, IN LO is connected to COM via normally-closed Link L2.) 4 Yellow (YL) INHI 5 Green (GN) INLO 6. Blue (BL) DPCOM Common connection for decimal points DP1, DP2 and DP3, see below. 7. Violet (VI) DP1 199.9 8. Grey (GY) DP2 19.99

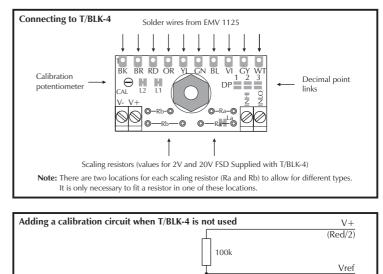
- 9. White (WT) DP3 1.999
- Connect to DP COM to display required decimal point.
- (or make appropriate solder link on T/BLK-4)

SCALING and CALIBRATION

A calibration circuit and two resistors (Ra and Rb) may be added on the EMV 1125 or T/BLK-4 board (cut Link La if fitting Ra) to alter the full scale reading of the meter - see table. Note that the meter will have to be (re-)calibrated by adjusting the potentiometer.

Required F.S.R.	Ra	Rb	CAL
200mV	N/A	N/A	Adjust
2V	910k	100k	Adjust
20V	1M	10k	Adjust
200μΑ	OR	1k	Adjust
2mA	OR	100R	Adjust
20mA	OR	10R	Adjust
200mA	OR	1R	Adjust





1k5

APPLICATIONS

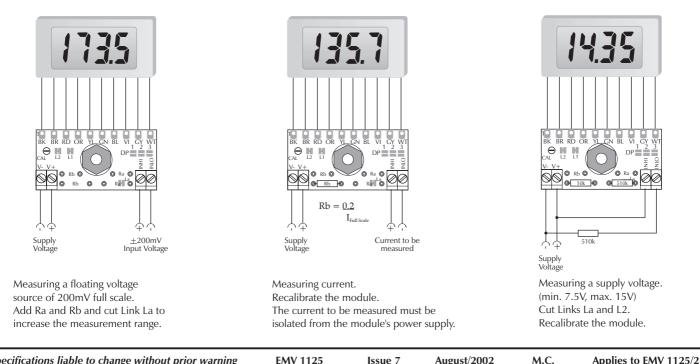
Do not connect more than one meter to the same power supply if the meters cannot use the same signal ground. Taking any input beyond the power supply rails will damage the meter. Keep leads short to ensure noise-free operation.

on T/BLK-4

Note: The calibration circuit must always

be fitted, even when scaling resistors are

not fitted. This circuit is fitted as standard



August/2002

(Orange/3)

COM

(Brown/1)

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