DPM 742-BL

4-20mA Loop Powered Indicator with Backlighting

PRODUCT DESCRIPTION

The DPM 742-BL gives an accurate, zero adjusted indication of a 4-20mA current. Calibration is by two multi-turn potentiometers which allow sensitive adjustment of the instrument over a very wide range. Decimal points are jumper link selectable. A low drift bandgap reference circuit ensures accurate readings over a wide temperature range. LED backlighting ensures excellent readability under low light conditions. Connection is via screw terminals. The module's low cost means it will suit high and low volume applications. This module is supplied with a plastic mounting bezel. A waterproof seal to IP67 / NEMA 4X is achievable, using the optional BEZ 700-IP metal bezel.

FEATURES

- 12.7mm (0.5") Digit Height
- 4-20mA Loop Powered Indication
- Low Volt Drop
- Programmable Decimal Points
- LED Backlighting (30mA @ 5V typ.)
- Bandgap Reference
- Wide Adjustment Range
- Auto-polarity on Display
- IP67 / NEMA 4X Protection via BEZ 700-IP

ORDERING INFORMATION

	Stock Number
Standard Meter	DPM 742-BL
IP67 / NEMA 4X Bezel	BEZ 700-IP

ELECTRICAL SPECIFICATIONS

Specification	Min.	Typ.	Max.	Unit
Accuracy (overall error) *	0.05		0.1	% (±1 count)
Linearity			±1	count
Sample rate		2.5		samples/sec
Operating temperature range	0		50	°C
Temperature stability		200		ppm/°C
Loop Volt Drop	5	5.6		V
Supply current	4		20	mA
Backlight supply voltage	4.75	5.0	**	V d.c.
Backlight supply current @ 5V d.c.		30	50***	mA
Full scale reading (@20mA)	0		1999	Count
Offset adjustment range	-1900		+1900	Count

* To ensure maximum accuracy, re-calibrate periodically.
** An external series resistor is required above 5V, see Applications.
*** This specification linearly derates to 30mA @ 50°C.

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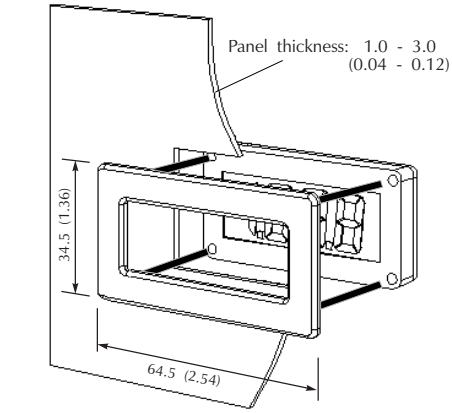
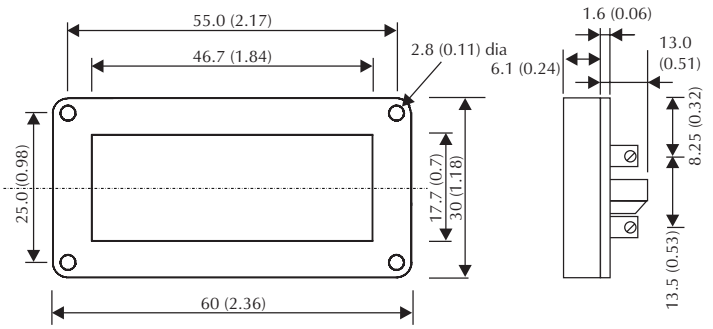
DIMENSIONS

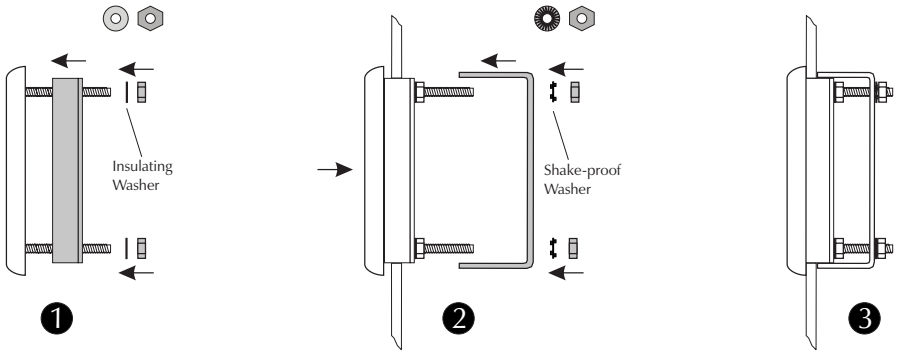
All dimensions in mm (inches)



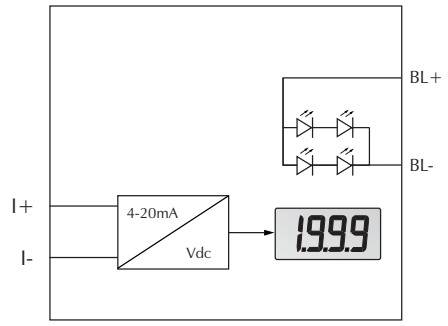
Panel cut-out: 62.0 - 32.0
(2.44 - 1.26)



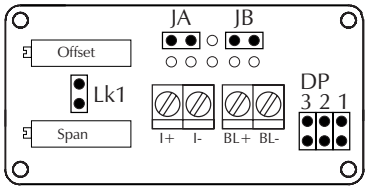
PANEL FITTING



FUNCTIONAL BLOCK DIAGRAM



CONNECTIONS (rear view)



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