

700 SERIES

MEDIUM DISPLAY, IP67 / NEMA 4X BEZEL OPTION

MARTEL METERS
ELECTRONICS

The 700 Series has a one-piece carrier & window protecting the display.
A separate plastic mounting bezel completes installation.

Modules below shown actual size.



DC Voltmeter

Stock No. DPM 750S-BL

- 3-1/2 digit LCD with LED backlighting
- Programmable decimal points
- Low battery warning
- 3.0 to 7.5V or 6.0 to 15.0V operation
- Auto-zero and auto-polarity
- SIL connection
- Optional IP67 bezel available (BEZ 700-IP)



Dual Channel Voltmeter

Stock No. DPM 702S

- 2 x 3-1/2 digit LCD
- Selectable decimal points
- Auto-zero, auto-polarity
- Programmable annunciators
- Common signal ground
- SIL connection



Loop Powered Voltmeter

Stock No. DPM 742-BL

- 3 digit LCD with LED backlighting
- Programmable decimal points
- Wide adjustment range
- Low voltage drop
- Auto-polarity on display
- Screw terminal connection
- Optional IP67 bezel available (BEZ 700-IP)



IP67 Bezel

Stock No. BEZ 700-IP

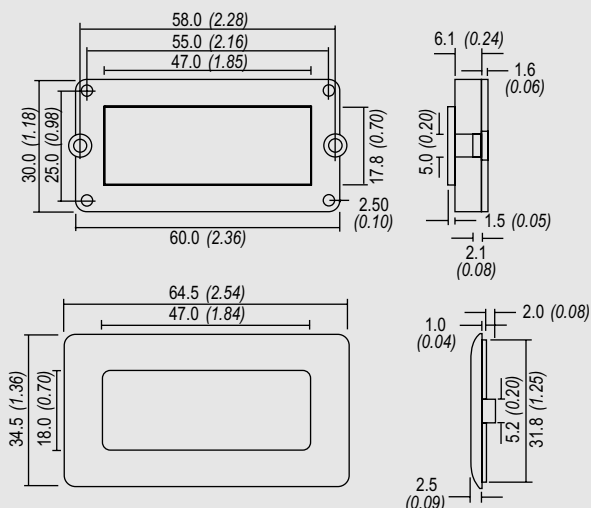
- Replaces standard bezel on:
DPM 742-BL and DPM 750S-BL
- Screw fixing
- Alloy & glass construction
- Panel cut-out: 60.5 x 30.5mm
2.38 x 1.20"
- Bezel size: 65.2 x 35.2mm
2.57 x 1.39"

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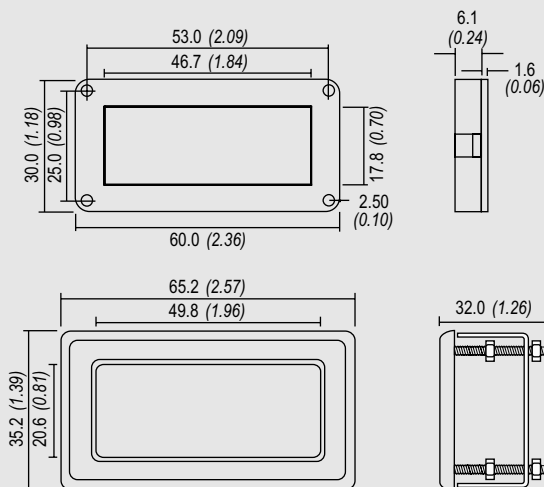
Martel Electronics, P.O. Box 770, Londonderry, NH 03053
Tel: 800-821-0023, E-mail: sales@martelmeters.com, Web: www.martelmeters.com

Mechanical Specification

All dimensions in mm (inches)

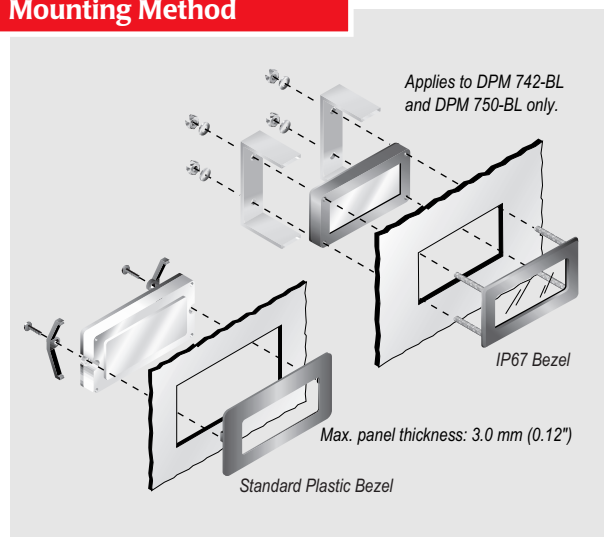


Applies to DPM 742-BL and DPM 750-BL only.



Dimensions	DPM 702S	DPM 742-BL	DPM 750S-BL
Digit height	6.4mm 0.25"	12.7mm 0.5"	12.7mm 0.5"
Panel cut-out (W x H)	62.0 x 32.0mm	60.5 x 30.5mm	60.5 x 30.5mm
	2.44 x 1.26"	2.38 x 1.20"	2.38 x 1.20"
Bezel (W x H)	64.5 x 34.5mm	65.2 x 35.2mm	65.2 x 35.2mm
	2.54 x 1.36"	2.57 x 1.39"	2.57 x 1.39"
Specifications			
Accuracy (overall error)	0.05% (± 1 count) (typ.)	0.1% (± 1 count) (max.)	0.1% (± 1 count) (typ.)
Full scale reading	± 200 mVDC	1000 (typ.)	± 200 mVDC
Resolution	100 μ V	1 count	100 μ V
Supply Voltage	3.5V to 7VDC	5.6 loop volt drop (typ.)	3.0 to 7V or 6.0 to 15.0VDC
Supply current (backlighting off)	700 μ A (typ.)	4 - 20mA	500 μ A or 350 μ A (typ.)
Supply current (backlighting on)	-	50mA (typ.) @ 5VDC	30mA (typ.) @ 5VDC
Sample rate	3 samples/sec.	2.5 samples/sec.	2.5 samples/sec.
Operating temperature range	0°C to 50°C	0°C to 50°C	0°C to 50°C
Temperature stability	100ppm/°C	200ppm/°C	30ppm/°C

Mounting Method



Connection

