

900 SERIES

MARTEL METERS
ELECTRONICS

LARGE DISPLAY, IP67 / NEMA 4X BEZEL OPTION

A range of voltmeters and thermometers supplied with a separate mounting bezel, including window.

IP67 Bezel available as option (BEZ-900-IP)

Modules below shown at 44% of actual size.



DC Voltmeter

Stock No. DPM 959B

- 3-1/2 digit LED
- 19 mm (0.75") digit height
- Programmable decimal points
- Auto-zero, auto-polarity
- Display hold
- IDC ribbon cable connection



AC Voltmeter

Stock No. DPM 970

- 3-1/2 digit LCD, LED backlit
- Digital hold
- Screw terminal connection



DC Voltmeter

Stock No. DPM 950

- 3-1/2 digit LCD, LED backlit
- Auto-zero, auto-polarity
- IDC ribbon cable connection
- Single rail version (DPM 950S)



4-20mA Loop Powered Meter

Stock No. DPM 942

- 3-1/2 digit LCD
- Programmable decimal points
- Two calibration pots (zero/span)
- Screw terminal connection



Thermometer - Type K

Stock No. DTM 995

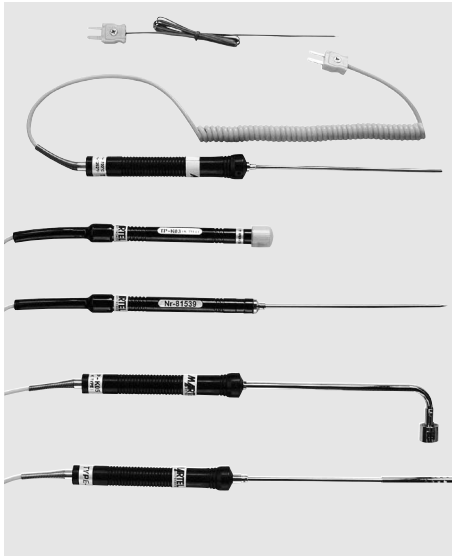
- 3-1/2 digit LCD, LED backlit
- Cold junction compensation
- Screw terminal connection
- Uses Type K probes



Thermometer - Type Pt100

Stock No. DTM 910

- 3-1/2 digit LCD, LED backlit
- Single step calibration
- Screw terminal connection
- Uses Pt-100 probe



TP-K01 – Bead Probe

-50°C to 200°C/-58°F to +392°F
Intended for general-purpose applications and difficult to reach measurements.

TP-K02 – Immersion Probe

-50°C to 700°C/-58°F to +1,292°F
For measurements in liquid, air, or gels.

TP-K03 – Surface Probe

-50°C to 400°C/-58°F to +752°F
For surface measurements on flat or curved surfaces.

TP-K04 – Piercing Probe

-50°C to 600°C/-58°F to +1,122°F
For food service measurements of liquids and gels.

TP-K05 – Surface Probe

-50°C to 400°C/-58°F to +752°F
For surface measurements of flat or curved surfaces in hard to reach locations.

TP-K06 – Air & Gas Probe

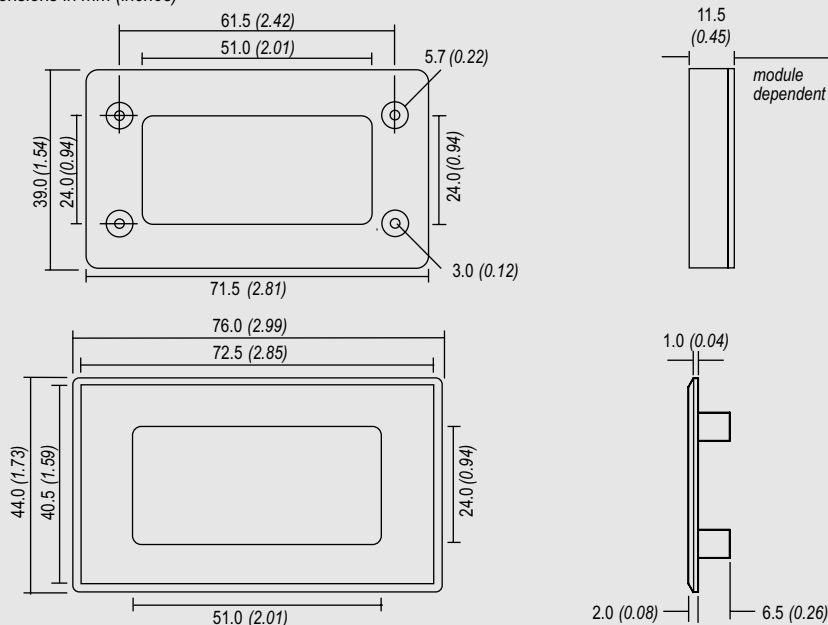
-50°C to 800°C/-58°F to +1,504°F
For measurements in air and other gases.

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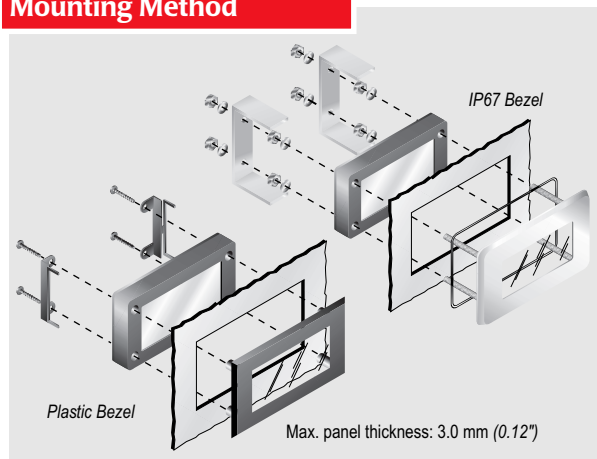
Mechanical Specification

All dimensions in mm (inches)



Dimensions	DPM 942	DPM 950(S)	DPM 959B	DPM 970	DTM 910	DTM 995
Digit height	19mm 0.75"	19mm 0.75"	19mm 0.75"	19mm 0.75"	19mm 0.75"	19mm 0.75"
Panel cut-out (W x H)	72.0 x 40.0mm	72.0 x 40.0mm	72.0 x 40.0mm	72.0 x 40.0mm	72.0 x 40.0mm	72.0 x 40.0mm
	2.83 x 1.57"	2.83 x 1.57"	2.83 x 1.57"	2.83 x 1.57"	2.83 x 1.57"	2.83 x 1.57"
Bezel (W x H)	76.0 x 44.0mm	76.0 x 44.0mm	76.0 x 44.0mm	76.0 x 44.0mm	76.0 x 44.0mm	76.0 x 44.0mm
	2.99 x 1.73"	2.99 x 1.73"	2.99 x 1.73"	2.99 x 1.73"	2.99 x 1.73"	2.99 x 1.73"
Specification						
Accuracy (overall error)	0.05% (±1 count) (typ.)	0.05% (±1 count) (typ.)	0.1% (±1 count) (typ.)	0.5% (±2 counts) (typ.)	Range dependent	1% (±1 count) (typ.)
Full Scale	Range 1 1000 (typ.)	±200mVDC	±200mVDC	2kV nom (500V max.)AC	-200°C to +200°C	-50°C to +600°C
Scale	Range 2 -	-	-	2mA AC	-200°C to +850°C	-58°F to +1112°F
Reading	Range 3 -	-	-	-	-200°F to +200°F	-
	Range 4 -	-	-	-	-328°F to +1562°F	-
Resolution	1 count	100µV	100µV	Range dependent	Range dependent	Range dependent
Supply Voltage	4.3V loop Volt drop (typ.)	9VDC (5VDC) (typ.)	5VDC (typ.)	9VDC (typ.)	5VDC (typ.)	7.5V to 24VDC
Supply current (BL off)	4-20mA	150mA (500µA) (typ.)	50mA (typ.)	1.5mA (typ.)	2.5mA (typ.)	3.5mA (typ.)
Supply current (BL on)	-	50mA (typ.) @ 5VDC	-	50mA (typ.) @ 5VDC	55mA (typ.) @ 5VDC	55mA (typ.) @ 5VDC
Sample rate	3 samples/sec.	3 samples/sec.	2.5 samples/sec.	3 samples/sec.	-	3 samples/sec.
Operating temp. range	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Temperature stability	100ppm/°C	100ppm/°C	150ppm/°C	200ppm/°C	-	0.05°C/°C (max.)

Mounting Method



Connection

