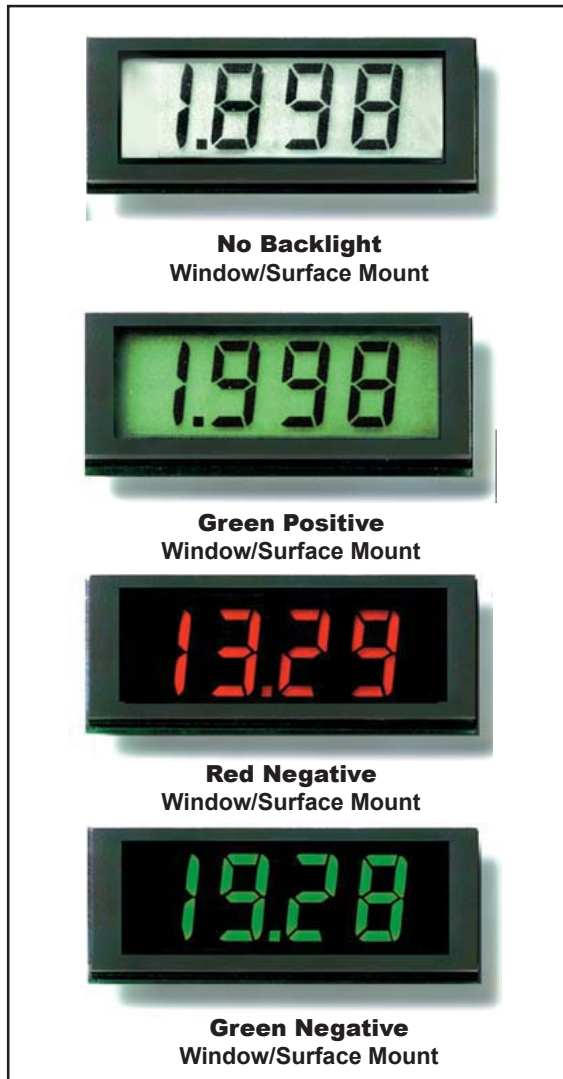


DP-650W

Large, low-cost 3 1/2 Digit Window or Surface Mount LCD Digital Panel Meters



Features

- Low-cost, high-performance replacement for many OEM DPMs
- Optional Red or Green backlighting
- Low power: choice of 180 μ A (9V, \pm 5V) or 2.5mA (+5V)
- Space-saving design: only 1" (25 mm) deep
- Occupies less than 2.5 X 1.1 inches of front panel space
- 3 1/2 digits with high-contrast LCD Display
- Optional loop powered 4 to 20mA process inputs (DP-660) available

Specifications

Display:	Digits:	3 1/2 digits (\pm 1999 counts)
	Type:	0.5" (12mm) high-contrast reflective LCD
Backlighting:	Optional Red Negative (red numbers/black background)	
	Optional Green Negative (green numbers/black background)	
	Optional Green Positive (black numbers/green background)	
Polarity:	Automatic, "-" displayed	
Decimal Points:	3 position, user selectable	
Overload:	Three lower order digits blank for inputs >1999 & <-1999	
Hold:	Available OEM option, contact factory	
Inputs:	Ranges:	\pm 200.0mV, \pm 2.000V, \pm 20.00V DC
	Configuration:	Bipolar & Differential
Protection:	\pm 350V DC, (\pm 100V DC on 200mV range)	
Impedance:	>10 M Ω , (>1 M Ω on 20V range)	
Performance:	Accuracy:	\pm (0.1% + 1 count) typical \pm (0.1% + 2 counts) maximum
	Conversion Rate:	2.5 per second
Normal Mode Rejection:	>30 db @ 60 Hz	
Common Mode Range:	\pm 1V DC	
Common Mode Rej.:	>86 dB	
Zero Adjustment:	Automatic	
Warmup:	10 minutes typical	
Temperature Coeff.:	\pm 100 ppm per $^{\circ}$ C typical	
Environment:	Operating Range:	0 to 50 $^{\circ}$ C
	Storage Range:	-20 to 70 $^{\circ}$ C
Power Supply:	5V powered DPM:	+5V DC (\pm 5%) at 2.5 mA
	9V (\pm 5V) powered DPM:	7.2V to 12V @ 180 mA
	Optional Backlight:	+5V DC at 100 mA
Mounting:	Surface or Window Mount	
Connection:	13 pins, 0.025" square on 0.1" centers - pin 3 missing	

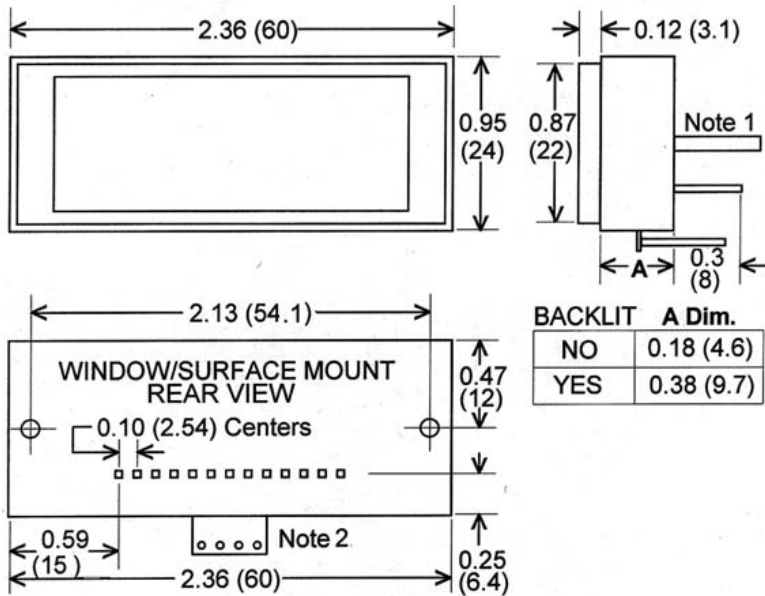
Ordering Information

Model	Description
DP650W9	3 1/2 digit LCD, 9V power, NO B/L, \pm 200mV input
DP652W9	3 1/2 digit LCD, 9V power, NO B/L, \pm 2V input
DP654W9	3 1/2 digit LCD, 9V power, NO B/L, \pm 20V input
DP650W	3 1/2 digit LCD, 5V power, NO B/L, \pm 200mV input
DP652W	3 1/2 digit LCD, 5V power, NO B/L, \pm 2V input
DP654W	3 1/2 digit LCD, 5V power, NO B/L, \pm 20V input
DP650W-RN5	3 1/2 digit LCD, 5V power, Neg. Red, 5V B/L, \pm 200mV input
DP650W-GN5	3 1/2 digit LCD, 5V power, Neg. Green, 5V B/L, \pm 200mV input
DP650W-GP5	3 1/2 digit LCD, 5V power, Pos. Green, 5V B/L, \pm 200mV input
DP652W-RN5	3 1/2 digit LCD, 5V power, Neg. Red, 5V B/L, \pm 2V input
DP652W-GN5	3 1/2 digit LCD, 5V power, Neg. Green, 5V B/L, \pm 2V input
DP652W-GP5	3 1/2 digit LCD, 5V power, Pos. Green, 5V B/L, \pm 2V input
C13	13 Pin Connector / Wire Assembly
C4	4 Pin Connector/ Wire Assembly
APS-5	120V AC to 5V DC Power Supply

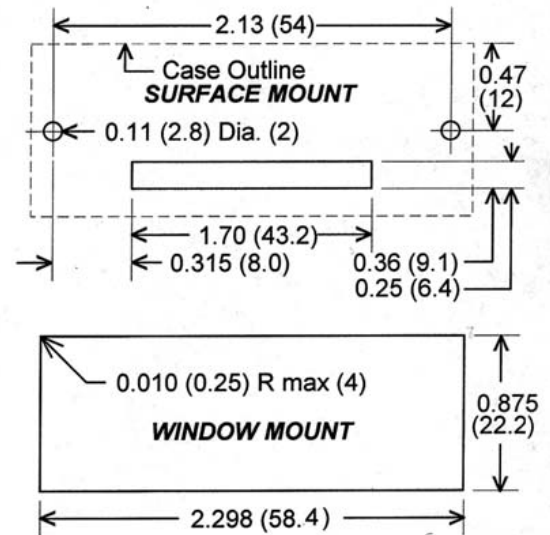
DP-650W

Dimensions

WINDOW/SURFACE MOUNT DIMENSIONS



PANEL CUTOUTS



Inches (mm)

NOTES:

1. Mounting studs (2) are #2-56, length 0.5 (13) min.
2. Backlight power is on 0.50 (12.4) wide x 0.22 (5.4) high tab.

Connections

Pin No.	Pin Name	Description
1	V+	Positive DPM power supply
2	V-	Negative power for 9V or ±5V DPMS
3	NC	No pin
4	TST	Negative ground for 5V DPMS
5	COM	Analog Common
6	INLO	Negative input signal
7	INHI	Positive input signal
8	RFL	Negative reference input
9	RFH	Positive reference input
10	ROH	Internal reference output
11	D3	1.XXX decimal point
12	D2	1X.XX decimal point
13	D1	1XX.X decimal point