

# LCD DIGITAL PANEL METERS - EPIC SERIES

3 1/2 Digit LCD Display



**Amber Negative**



**Red Negative**

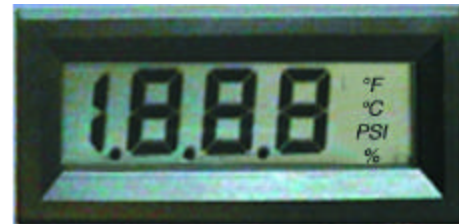


**Green Negative**



**Bezel Mount**

**Green Positive**



**No Backlight**

## Features:

- Low-cost, high-performance replacement for many OEM DPMs
- Optional Red, Green or Amber backlighting
- Snap-in bezel mount eliminates mounting hardware
- Resistant to RF and EMI
- 3 1/2 digits with high-contrast LCD Display
- User selectable, displayed engineering units

## Specifications:

<b>Display:</b>	
Digits:	3 1/2 digits (±1999 counts)
Type:	0.45" (11.4 mm) 7 segment LCD
Backlighting:	Optional Red Negative (red numbers/black background) Optional Green Negative (green numbers/black background) Optional Amber Negative (amber numbers/black background) Optional Green Positive (black numbers/green background)
Polarity:	Automatic; "-" displayed
Annunciators:	°F, °C, PSI, %, user selectable
Decimal Points:	3 position, user selectable
Overload:	Three lower order digits blank for inputs >1999
Hold:	Available OEM option, contact factory
<b>Inputs:</b>	
Ranges:	±200.0mV, ±2.000V, ±20.00V DC
Configuration:	Bipolar Differential
Protection:	±350V DC, (±10V DC on 200mV range)
Impedance:	100 Megohm on ± 200mV ; (1 Megohm on 2V & 20V range)
Bias Current	1 pA ( ± 200mV ) , 100 pA (other ranges)
<b>Performance:</b>	
Accuracy:	±(0.1% fs + 2 count)
Conversion Rate:	3 per second
Normal Mode Rejection:	>30 db @ 60 Hz
Common Mode Range:	±1V DC max
Common Mode Rej.:	>86 dB
Zero Adjustment:	Automatic
Warmup:	10 minutes typical
Temperature Coeff.:	± 100 ppm per °C typical
<b>Environment:</b>	
Operating Range:	0 to 50 °C
Storage Range:	-20 to 70 °C
<b>Power Supply:</b>	
+5V DC:	5V DC at 3.5 mA max
Optional Backlight	24V DC at 35 mA typical, 5 VDC at 130mA
<b>Mounting:</b>	
	Snap-in Bezel mount
<b>Connection:</b>	
	13 pins, 0.025" square

\*Negative backlighting is lighted numerals  
Positive backlighting is lighted background

## Ordering Information:

### EPIC Series LCD DPM Part Numbering

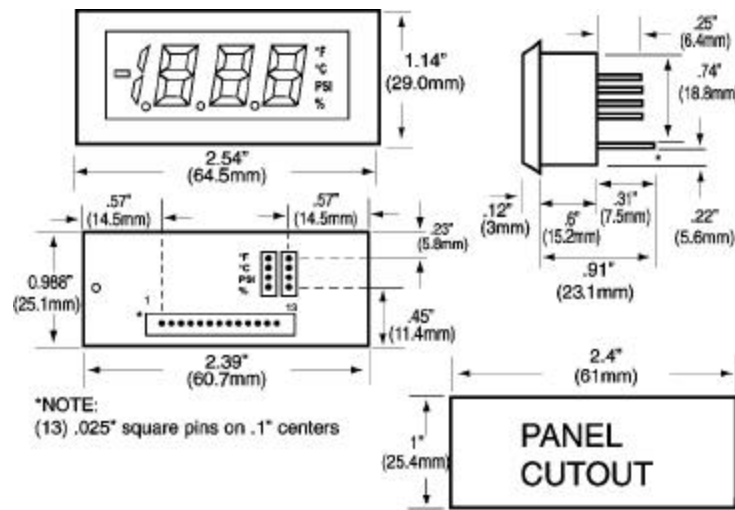
MODEL	DESCRIPTION
DK541	3 1/2 digit, 5V power, 200mV Input
DK542	3 1/2 digit, 5V power, 2V Input
DK543	3 1/2 digit, 5V power, 20V Input
DK551	3 1/2 digit, 5V power, 200mV Input, Neg. AMBER
DK552	3 1/2 digit, 5V power, 2V Input, Neg. AMBER
DK553	3 1/2 digit, 5V power, 20V Input, Neg. AMBER
DK561	3 1/2 digit, 5V power, 200mV Input, Neg. GREEN
DK562	3 1/2 digit, 5V power, 2V Input, Neg. GREEN
DK563	3 1/2 digit, 5V power, 20V Input, Neg. GREEN
DK571	3 1/2 digit, 5V power, 200mV Input, Neg. RED
DK572	3 1/2 digit, 5V power, 2V Input, Neg. RED
DK573	3 1/2 digit, 5V power, 20V Input, Neg. RED
DK581	3 1/2 digit, 5V power, 200mV Input, Pos. GREEN
DK582	3 1/2 digit, 5V power, 2V Input, Pos. GREEN
DK583	3 1/2 digit, 5V power, 20V Input, Pos. GREEN

**J4C13** .....13 Pin Connector / Wire Assembly .....  
**PW2-5** .....Regulated 120V AC to 5V DC Adaptor .....



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# Dimensions



## DIMENSIONS

## WIRING

Pin	Description
1	+5V
2	GND
3	INH1
4	INLO
5	Dec. common
6	Dec. 000.0 when connected to decimal common
7	Dec. 00.00 when connected to decimal common
8	Dec. 0.000 when connected to decimal common
9	No connection
10	No connection
11	Signal Hold when connected to V+ (optional)
12	B/L V+ (Backlighted models only)
13	B/L V- (Backlighted models only)

Note: Pins 2 & 4 should be tied together for proper operation.