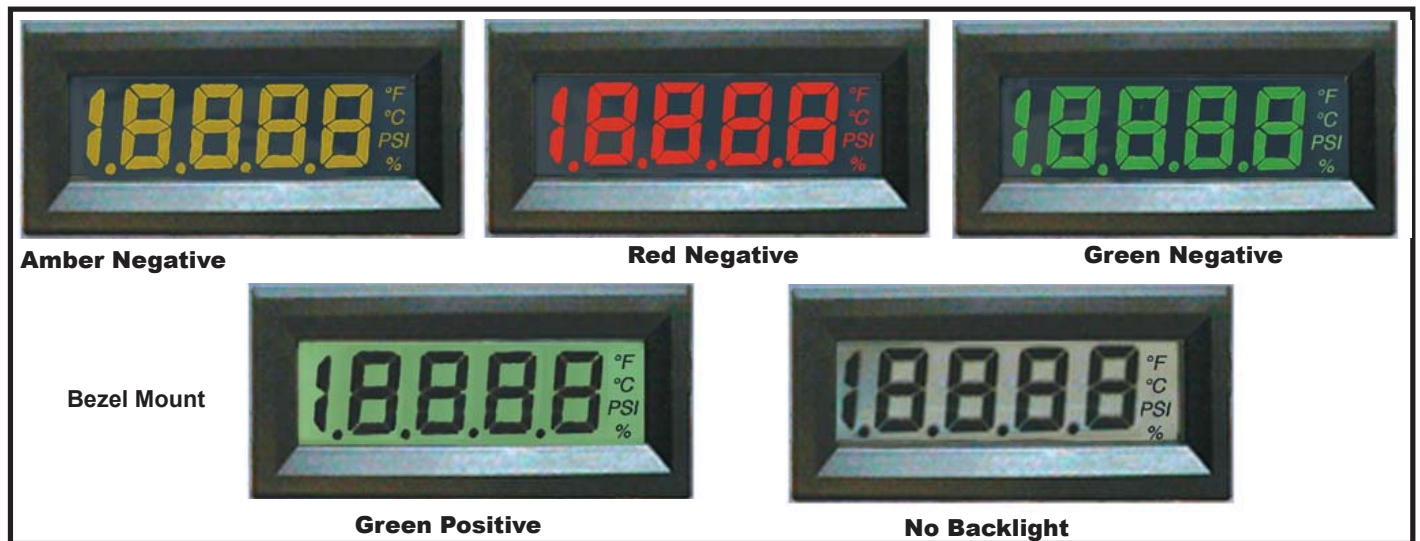


# DP-440 Series

## 4 1/2 Digit LCD Display Digital Panel Meters



### Features

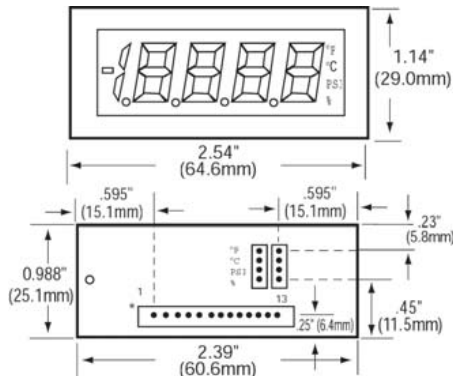
- Low-cost, high-performance replacement for many OEM DPMs
- Optional Red, Green or Amber backlighting
- Snap-in bezel mount eliminates mounting hardware
- Resistant to RF and EMI
- 4 1/2 digits with high-contrast LCD Display
- User selectable, displayed engineering units
- Contact factory for many other OEM features and options not listed
- High resolution  $\pm 19,000$  counts

### Ordering Information

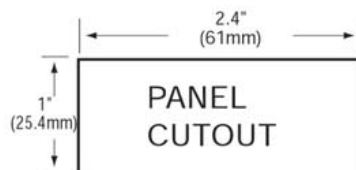
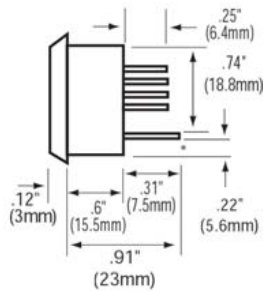
Model	Description
DP-440	4 1/2 digit LCD, NO Backlight, $\pm 200\text{mV}$
DP-442	4 1/2 digit LCD, NO Backlight, $\pm 2\text{V}$
DP-444	4 1/2 digit LCD, NO Backlight, $\pm 20\text{V}$
DP-4451	4 1/2 digit LCD, Amber Negative, 5V B/L power, $\pm 200\text{mV}$
DP-4452	4 1/2 digit LCD, Amber Negative, 5V B/L power, $\pm 2\text{V}$
DP-4453	4 1/2 digit LCD, Amber Negative, 5V B/L power, $\pm 20\text{V}$
DP-4454	4 1/2 digit LCD, Amber Negative, 24V B/L power, $\pm 200\text{mV}$
DP-4461	4 1/2 digit LCD, Green Negative, 5 Vdc B/L power, $\pm 200\text{mV}$
DP-4462	4 1/2 digit LCD, Green Negative, 5 Vdc B/L power, $\pm 2\text{V}$
DP-4463	4 1/2 digit LCD, Green Negative, 5 Vdc B/L power, $\pm 20\text{V}$
DP-4464	4 1/2 digit LCD, Green Negative, 24 Vdc B/L power, $\pm 200\text{mV}$
DP-4471	4 1/2 digit LCD, Red Negative, 5 Vdc B/L power, $\pm 200\text{mV}$
DP-4472	4 1/2 digit LCD, Red Negative, 5 Vdc B/L power, $\pm 2\text{V}$
DP-4473	4 1/2 digit LCD, Red Negative, 5 Vdc B/L power, $\pm 20\text{V}$
DP-4474	4 1/2 digit LCD, Red Negative, 24 Vdc B/L power, $\pm 200\text{mV}$
DP-4481	4 1/2 digit LCD, Green Positive, 5 Vdc B/L power, $\pm 200\text{mV}$
DP-4482	4 1/2 digit LCD, Green Positive, 5 Vdc B/L power, $\pm 2\text{V}$
DP-4483	4 1/2 digit LCD, Green Positive, 5 Vdc B/L power, $\pm 20\text{V}$
DP-4484	4 1/2 digit LCD, Green Positive, 24 Vdc B/L power, $\pm 200\text{mV}$
C14	13 Pin Connector / Wire Assembly
APS-5	120V AC to 5V DC Power Supply
APS-24	120V AC to 24V DC Power Supply

# DP-440 Series

## Dimensions



\*NOTE:  
(13) .025" square pins on .1" centers



## Connections

Pin No.	Pin Name	Description
1	+5V	+5V power supply
2	GND	Power supply ground
3	INHI	Positive input signal
4	INLO	Negative input signal
5	COM	Decimal common
6	D1	0000.0 when connected to decimal common
7	D2	000.00 when connected to decimal common
8	D3	00.000 when connected to decimal common
9	D4	0.0000 when connected to decimal common
10	NC	No connection required
11	HOLD	Signal hold when connected to V+ (optional)
12		B/L V+ (Backlit models only)
13		B/L V- (Backlit models only)

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

## Specifications

Display:	Digits:	4 ½ digits (±19999 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:	4 position, user selectable
	Overload:	Four lower order digits blank for inputs >19999
	Hold:	Available OEM option, contact factory
Inputs:	Ranges:	±200.00mV, ±2.0000V, ±20.000V DC
	Configuration:	Bipolar Differential
	Protection:	±350V DC, (±100V DC on 200mV range)
	Impedance:	1000 MΩ on ±200mV; (1 MΩ on 2V & 20V range)
	Bias Current:	1 pA (±200mV), 100 pA (other ranges)
Performance:	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
Environment:	Operating Range:	0 to 50 °C
	Storage Range:	-20 to 70 °C
Power Supply:	+5V DC:	5V DC at 3.5 mA max
	Optional Backlight:	24V DC at 35 mA typical, 5 V DC at 130mA
Mounting:		Snap-in Bezel mount
Connection:		13 pins, 0.025" square

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