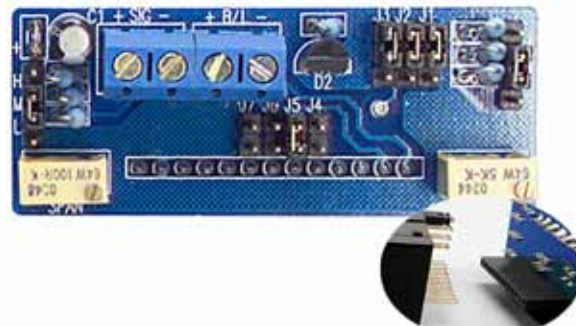




EPIC SERIES



### 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
- ◇ 4½ digits with high-contrast LCD
- ◇ 4- 20 mA loop powered input
- ◇ User selectable, displayed engineering units

### Specifications:

<b>Display:</b>	Digits:	4 ½ digits (±19999 counts)
	Type:	0.45" (11.4 mm) 7 segment LCD
<b>Backlighting:</b>		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, %
	Decimal Points:	4 position, user selectable
	Overrange:	four lower order digits blank for inputs >19999 & < -19999
<b>Inputs:</b>	Ranges:	4-20 mA DC
	Configuration:	bipolar differential
	Impedance:	300Ω nominal @ 20 mA
<b>Performance:</b>	Accuracy:	±(0.1% fs + 2 count)
	Conversion Rate:	3 per second
	Normal Mode Rejection:	>30 dB @ 60 Hz
	Adjustments:	span (gain) and zero (offset) with course setting
	Warmup:	10 minutes typical
	Temperature Coefficient:	± 100 ppm per °C typical
<b>Environment:</b>	Operating Range:	0 to 50 °C
	Storage Range:	-20 to 70 °C
<b>Power Supply:</b>		powered by the milliamp control loop
	Optional Backlight:	24 VDC at 35 mA typical
<b>Mounting:</b>		snap-in bezel mount
<b>Connection:</b>		2 screw terminal (4 with backlight)

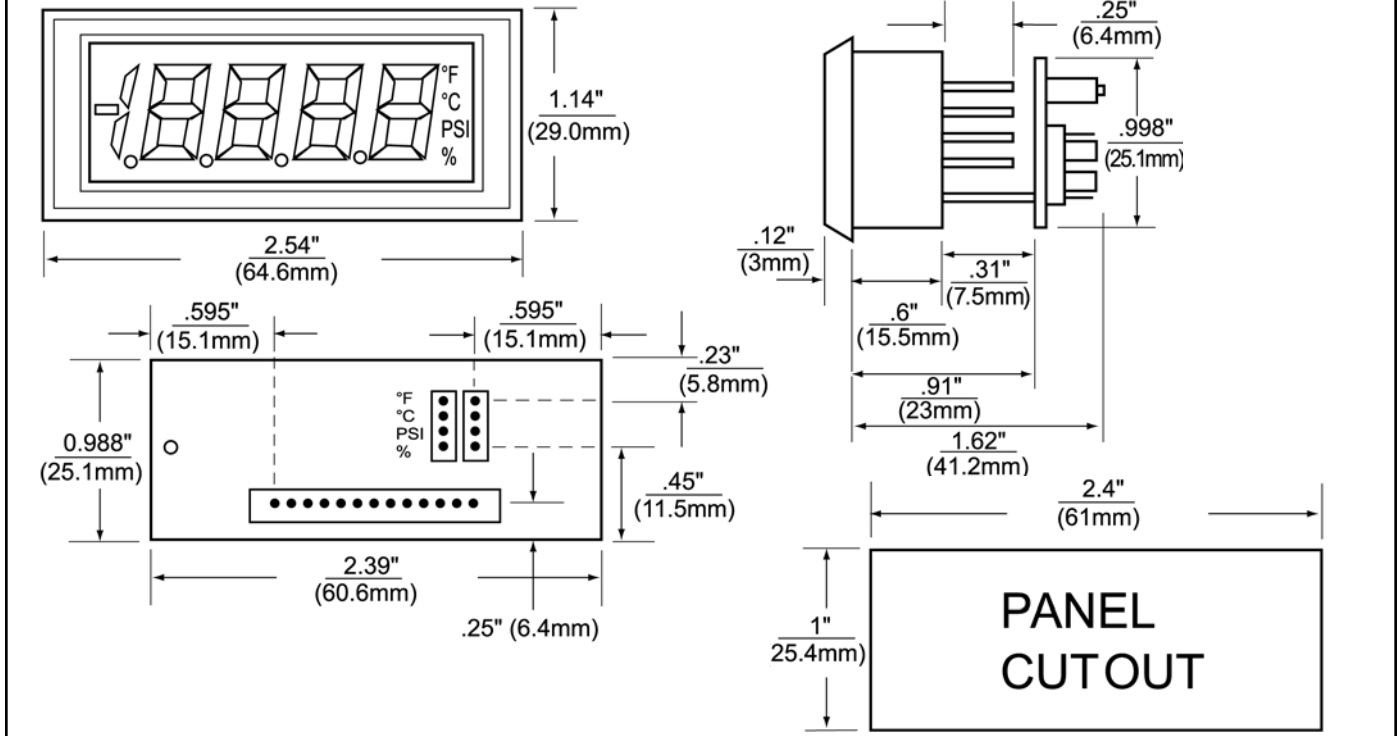
### Ordering Information:

PART NUMBER	BACKLIGHT COLOR	BACKLIGHT POWER
DK790.....	NO BACKLIGHT .....	NONE
DK791.....	NEG AMBER .....	24VDC
DK793.....	NEG GREEN .....	24VDC
DK794.....	NEG RED .....	24VDC
DK795.....	POS GREEN .....	24VDC

PW2-24.....Regulated 120V AC to 24V DC Power Supply  
 PW1.0..... 24V AC to adjustable DC output  
 CPW1.5..... 24V AC to adjustable DC output  
 CVC..... Calibrator

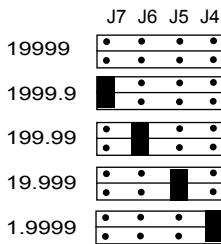


### Dimensions



### Jumper Selection & Wiring

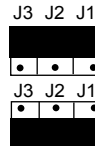
#### 1. DECIMAL SELECTION:



#### 2. J1, J2, J3 SELECTION:

**IF:** MIN DISPLAY IS = 0 **or**  
MIN DISPLAY IS > 0 **and** MAX DISPLAY ÷ MIN DISPLAY ≥ 5

**IF:** MIN DISPLAY IS > 0 **and** MAX DISPLAY ÷ MIN DISPLAY < 5



#### 3. SPAN JUMPER SECTION:

SPAN FACTOR	SET JUMPERS
0-12	L
10-22	M
22-32	H

**IF:** MIN DISPLAY IS ≤ 0 **or**  
MIN DISPLAY IS > 0 **and** MAX DISPLAY ÷ MIN DISPLAY > 5

**THEN:** SPAN FACTOR =  $\frac{2.5 (\text{MAX DISPLAY} - \text{MIN DISPLAY})}{4000 + 0.02 (\text{MIN DISPLAY}) - 0.004 (\text{MAX DISPLAY})}$

**IF:** MIN DISPLAY IS > 0 **and** MAX DISPLAY ÷ MIN DISPLAY ≤ 5

**THEN:** SPAN FACTOR =  $\frac{\text{MAX DISPLAY} - \text{MIN DISPLAY}}{1600}$

#### 4. ZERO (OFFSET) JUMPER SELECTION:

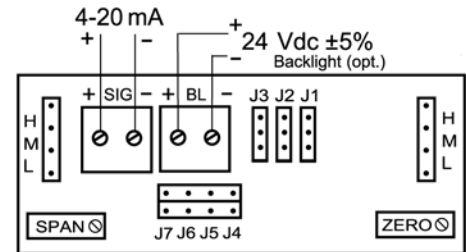
ZERO FACTOR	SET JUMPERS
0-3994	H
3320-7314	M
6640-10634	L

**IF:** MIN DISPLAY IS ≤ 0 **or**  
MIN DISPLAY IS > 0 **and** MAX DISPLAY ÷ MIN DISPLAY > 5

**THEN:** ZERO FACTOR =  $\frac{(250000 + \text{MIN DISPLAY}) \times (83834) - 73200}{(250000 + 400 (\text{SPAN FACTOR}))}$

**IF:** MIN DISPLAY IS > 0 **and** MAX DISPLAY ÷ MIN DISPLAY ≤ 5

**THEN:** ZERO FACTOR =  $\frac{(10634 - (\text{MIN DISPLAY} - 400 (\text{SPAN FACTOR})) \times 83834}{250000}$



WIRING