



Features:

- ◇ Low-cost, high-performance replacement for many OEM DPMs
- ◇ Optional RED, GREEN, AMBER or POS GREEN backlit LCD
- ◇ 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
- ◇ Clamp and gasket for NEMA applications

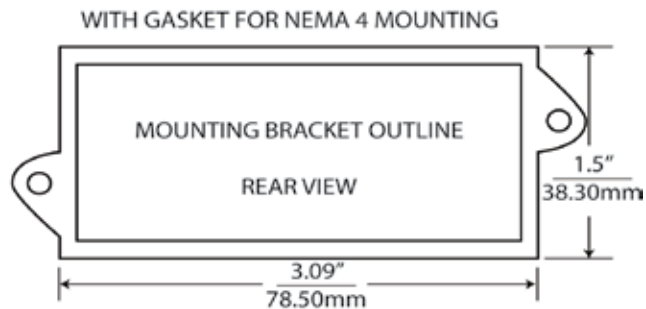
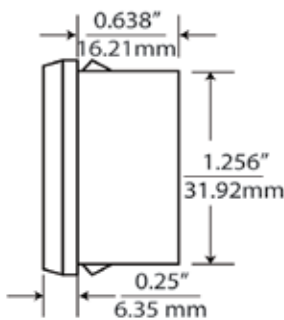
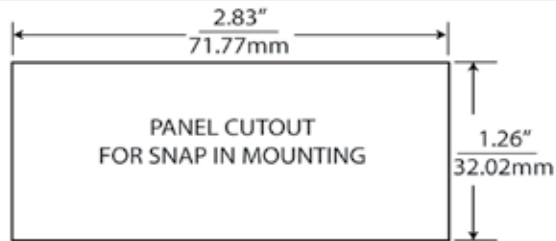
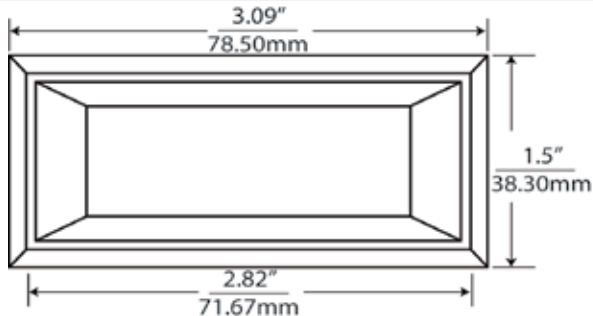
Specifications:

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
	Overrange:	four lower order digits blank for inputs >19999 & <-19999
Inputs:	Ranges:	4-20 mA DC
	Configuration:	bipolar differential
	Impedance:	300Ω nominal
Performance:	Accuracy:	±(0.1% fs + 2 count)
	Conversion Rate:	3 per second
	Normal Mode Rejection:	>30 db @ 60 Hz
	Common Mode Range:	±1 VDC max
	Common Mode Rej.:	>86 dB
	Adjustments:	span (gain) and zero (offset)
	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:		powered by the milliamp control loop
	Optional Backlight:	24 VDC at 35 mA typical
Mounting:		snap-in bezel mount or clamp and gasket
Connection:		2 screw terminal (4 with backlight)

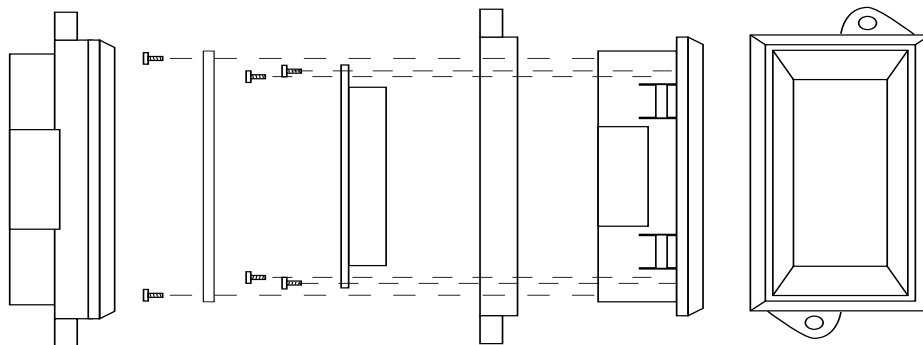
Ordering Information:

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

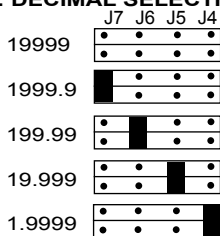


NOTES:
 1. Panel thickness is: 0.032"/0.81mm to 0.25"/6.35mm
 2. Gasket supplied is: 0.09"/2.25mm thick



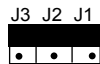
Jumper Selection & Wiring

1. DECIMAL SELECTION

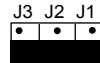


2. J1, J2, J3 SELECTION

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

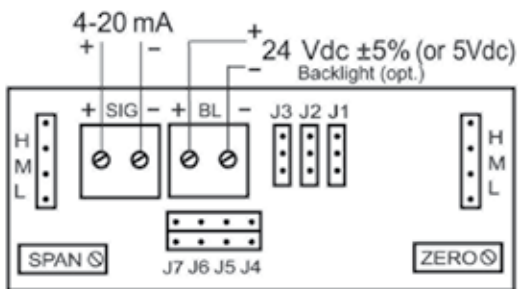
THEN: ZERO FACTOR =

$$\frac{(250000 + \text{MIN DISPLAY}) \times (83834) - 73200}{(250000 + 400 (\text{SPAN FACTOR}))}$$

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