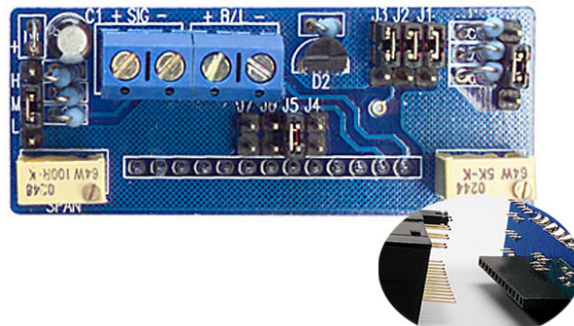


EPIC SERIES



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:

| | | |
|----------------------|--------------------------|--|
| 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, %, or V, A, KW, PF |
| | 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 @ 20 mA |
| Performance: | 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 |
| 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 |
| Connection: | | 2 screw terminal (4 with backlight) |

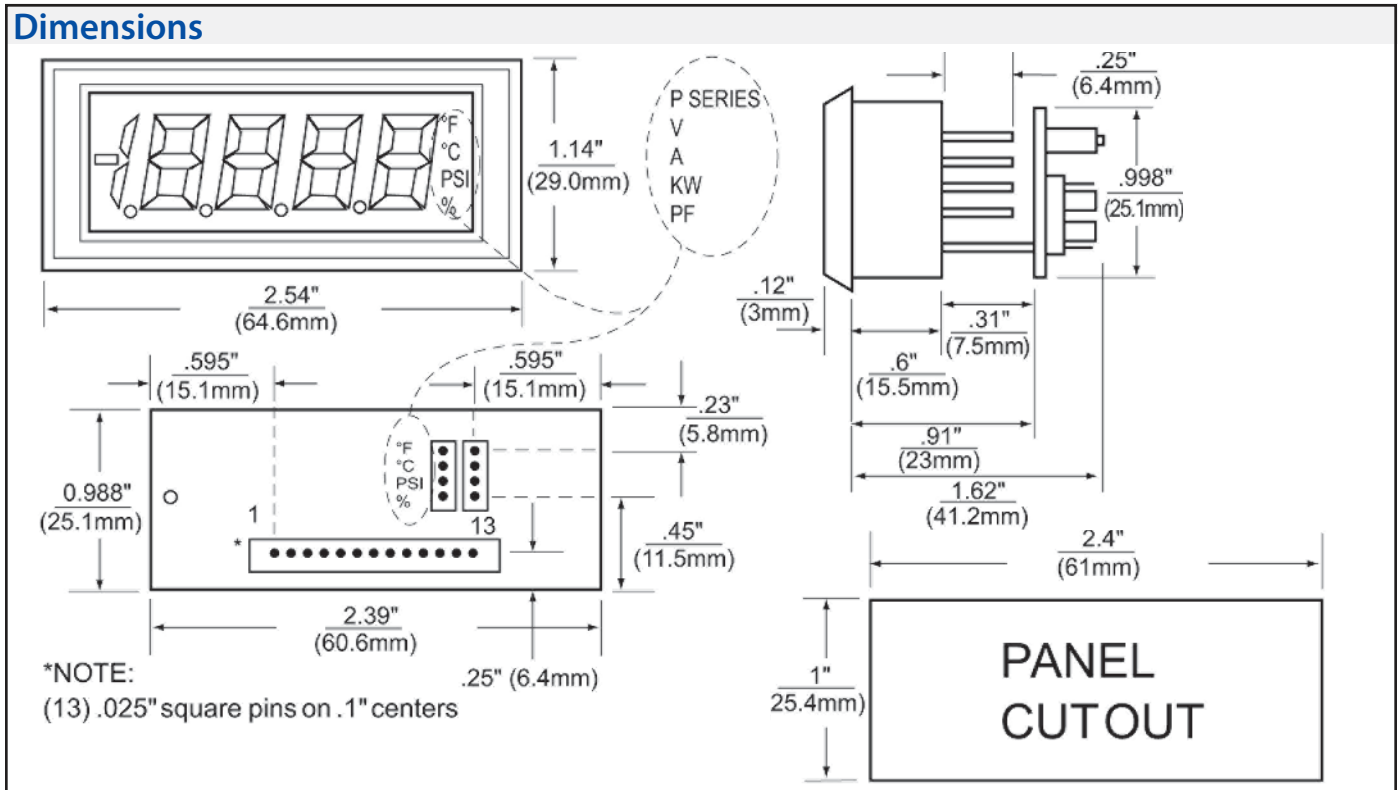
Ordering Information:

| 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 |

*Add (P) for Power Engineering Units V, A, KW, PF

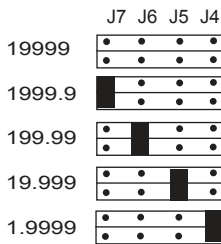
| | |
|--------|--|
| PW2-24 | Regulated 120V AC to 24V DC Power Supply |
| PW1.0 | 24V AC to adjustable DC output |
| CPW1.5 | 24V AC to adjustable DC output |
| CVC | Calibrator |

Dimensions



Jumper Selection & Wiring

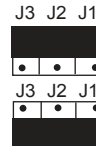
1. DECIMAL SELECTION:



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:

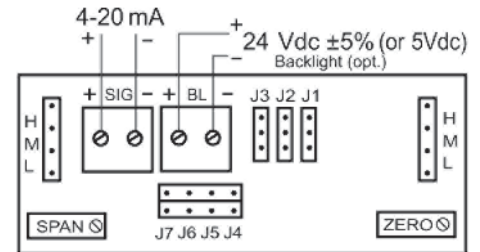
| ZERO FACTOR | SET JUMPERS |
|-------------|-------------|
| 0-3994 | H |
| 3320-7314 | M |
| 6640-10634 | L |

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