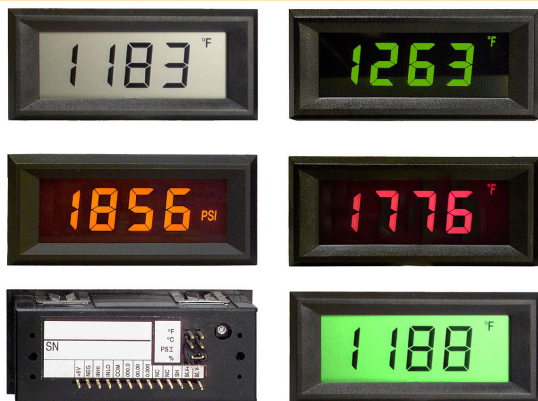




### FEATURES

- ▶ 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
- ▶ 3½ digits with high-contrast LCD
- ▶ User-selectable, displayed engineering units

### SPECIFICATIONS

#### DISPLAY

Digits: 3½ digits ( $\pm 1999$  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  
 Overrange: three lower order digits blank for inputs >1999

#### INPUTS

Ranges:  $\pm 200.0\text{mV}$ ,  $\pm 2.000\text{V}$ ,  $\pm 20.00\text{V DC}$   
 Configuration: bipolar differential  
 Protection:  $\pm 350\text{ VDC}$ , ( $\pm 100\text{ VDC}$  on 200 mV range)  
 Impedance: 1000 M $\Omega$  on  $\pm 200\text{ mV}$ ;  
 (1 M $\Omega$  on 2 V & 20 V range)  
 Bias Current: 1 pA ( $\pm 200\text{ mV}$ ) , 100 pA (other ranges)

#### PERFORMANCE

Accuracy:  $\pm (0.1\% \text{ fs} + 2 \text{ count})$   
 Conversion Rate: 3 per second  
 Normal Mode Rejection: >30 dB @ 60 Hz  
 Common Mode Range:  $\pm 1\text{ VDC max}$   
 Common Mode Rej.: >86 dB  
 Zero Adjustment: automatic  
 Warmup: 10 minutes typical  
 Temperature Coeff.:  $\pm 100\text{ ppm per } ^\circ\text{C typical}$

#### ENVIRONMENT

Operating Range: 0 to 50 °C  
 Storage Range: -10 to 70 °C

#### POWER SUPPLY

Optional Backlight: 5 VDC at 3.5 mA max  
 24 VDC at 35 mA, 5 VDC at 130mA typical

#### MOUNTING CONNECTION

snap-in bezel mount  
 13 pins, 0.025" square

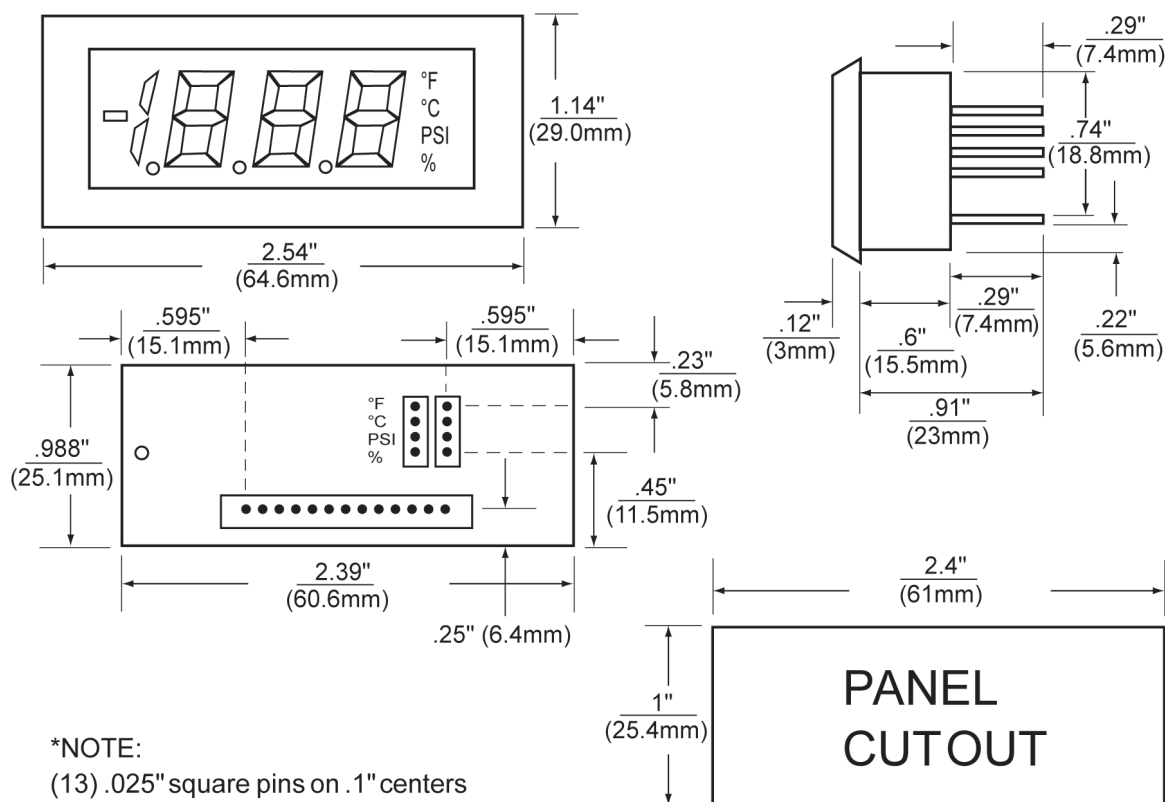
### ORDERING INFO

| PART NUMBER | BACKLIGHT COLOR | METER INPUT | BACKLIGHT POWER |
|-------------|-----------------|-------------|-----------------|
| DK541       | NO BACKLIGHT    | 200mV       | NONE            |
| DK542       | NO BACKLIGHT    | 2V          | NONE            |
| DK543       | NO BACKLIGHT    | 20V         | NONE            |
| DK551       | NEG AMBER       | 200mV       | 5VDC            |
| DK552       | NEG AMBER       | 2V          | 5VDC            |
| DK553       | NEG AMBER       | 20V         | 5VDC            |
| DK561       | NEG GREEN       | 200mV       | 5VDC            |
| DK562       | NEG GREEN       | 2V          | 5VDC            |
| DK563       | NEG GREEN       | 20V         | 5VDC            |
| DK571       | NEG RED         | 200mV       | 5VDC            |
| DK572       | NEG RED         | 2V          | 5VDC            |
| DK573       | NEG RED         | 20V         | 5VDC            |
| DK581       | POS GREEN       | 200mV       | 5VDC            |
| DK582       | POS GREEN       | 2V          | 5VDC            |
| DK583       | POS GREEN       | 20V         | 5VDC            |

#### ACCESSORIES

|        |                                          |
|--------|------------------------------------------|
| J4C13  | 13 Pin Connector / Wire Assembly         |
| PW2-5  | Regulated 120V AC to 5V DC Power Supply  |
| PW2-24 | Regulated 120V AC to 24V DC Power Supply |
| CVC    | Calibrator                               |

## DIMENSIONS



## WIRING

### PIN # PIN NAME DESCRIPTION

|    |       |                                        |
|----|-------|----------------------------------------|
| 1  | +5V   | +5V POWER SUPPLY                       |
| 2  | NEG   | POWER SUPPLY GROUND                    |
| 3  | INHI  | POSITIVE INPUT SIGNAL                  |
| 4  | INLO  | NEGATIVE INPUT SIGNAL                  |
| 5  | COM   | DECIMAL COMMON                         |
| 6  | 000.0 | 000.0 WHEN CONNECTED TO DECIMAL COMMON |
| 7  | 00.00 | 00.00 WHEN CONNECTED TO DECIMAL COMMON |
| 8  | 0.000 | 0.000 WHEN CONNECTED TO DECIMAL COMMON |
| 9  | NC    | NO CONNECTION REQUIRED                 |
| 10 | NC    | NO CONNECTION REQUIRED                 |
| 11 | SH    | SIGNAL HOLD WHEN CONNECTED TO V+       |
| 12 | BLV+  | BACKLIGHT V+ (BACKLIT MODELS ONLY)     |
| 13 | BLV-  | BACKLIGHT V- (BACKLIT MODELS ONLY)     |

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