

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 (± 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 Ω on $\pm 200\text{ mV}$;
 (1 M Ω 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 130 mA typical

MOUNTING CONNECTION

snap-in bezel mount
 13 pins, 0.025" square

ORDERING INFO

PART NUMBER	BACKLIGHT COLOR	METER INPUT	BACKLIGHT POWER
DMO-541	NO BACKLIGHT	200mV	NONE
DMO-542	NO BACKLIGHT	2V	NONE
DMO-543	NO BACKLIGHT	20V	NONE
DMO-551	NEG AMBER	200mV	5VDC
DMO-552	NEG AMBER	2V	5VDC
DMO-553	NEG AMBER	20V	5VDC
DMO-554	NEG AMBER	200mV	24VDC
DMO-561	NEG GREEN	200mV	5VDC
DMO-562	NEG GREEN	2V	5VDC
DMO-563	NEG GREEN	20V	5VDC
DMO-564	NEG GREEN	200mV	24VDC
DMO-571	NEG RED	200mV	5VDC
DMO-572	NEG RED	2V	5VDC
DMO-573	NEG RED	20V	5VDC
DMO-574	NEG RED	200mV	24VDC
DMO-581	POS GREEN	200mV	5VDC
DMO-582	POS GREEN	2V	5VDC
DMO-583	POS GREEN	20V	5VDC
DMO-584	POS GREEN	200mV	24VDC

ACCESSORIES

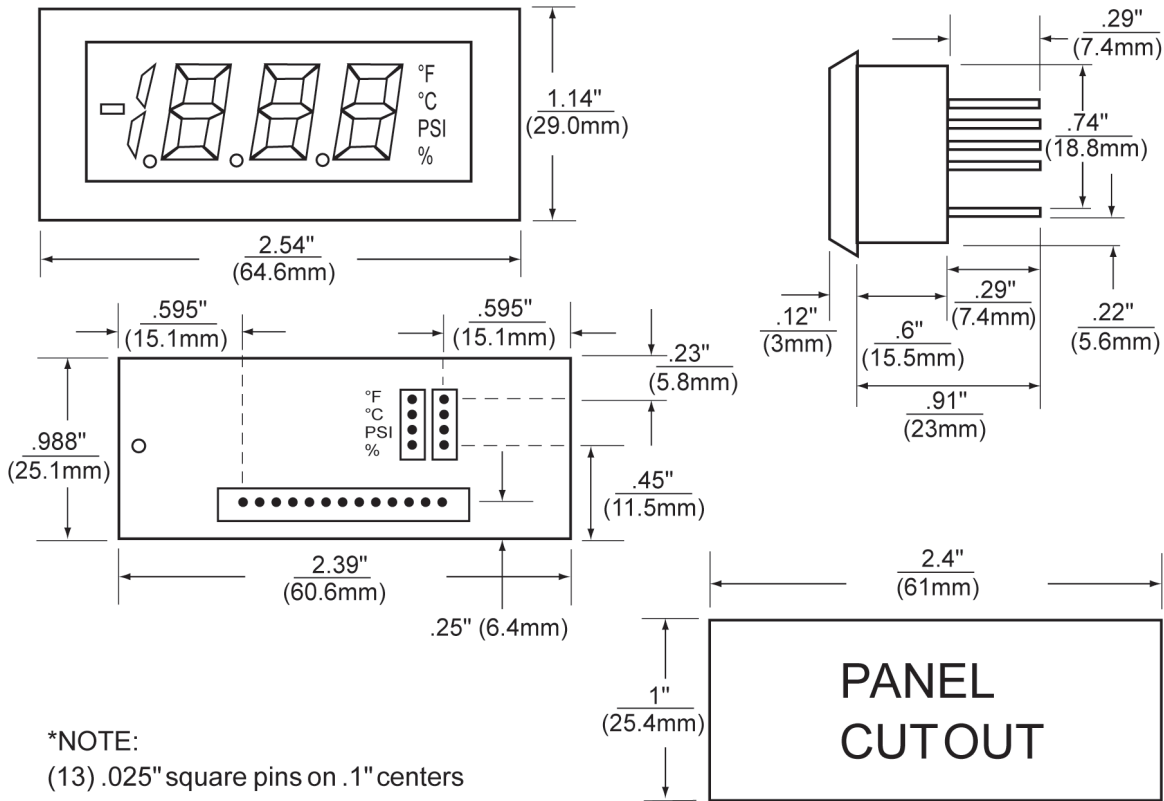
J4C13	13 Pin Connector / Wire Assembly
PW2-5	Regulated 120V AC to 5V DC Power Supply
PW2-24	Regulated 120V AC to 24V DC Power Supply
CVC	Calibrator



Specifications Installation and Operating Instructions
LCD Digital Panel Meters
 EPIC Series - 3½ Digit LCD



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	NC	NO CONNECTION REQUIRED
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