



LCD Digital Panel Meters

Digital Meters

Epic Series - 4½ Digit LCD with Loop Powered Board



No Backlight
Window Mount



FEATURES

- Low-cost, high-performance replacement for many OEM DPMs Optional RED, GREEN or AMBER backlighting
- Window mount
- 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)
 automatic, "-" displayed
 Polarity: °F, °C, PSI, % user-selectable
 Annunciators: or V, A, KW, PF
 Decimal Points: 4 position, user-selectable
 Overrange: four lower order digits blank for inputs
 →19999 & ← -19999

HOW TO ORDER:

PART NUMBER	BACKLIGHT COLOR	BACKLIGHT POWER
LPI-4*EW	NO BACKLIGHT	NONE
LPI-4*EANW	NEG AMBER	24VDC
LPI-4*EGNW	NEG GREEN	24VDC
LPI-4*ERNW	NEG RED	24VDC
LPI-4*EGPW	POS GREEN	24VDC

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

ACCESSORIES

PW2-24	Regulated 120V AC to 24V DC Power Supply
CVC	Calibrator

INPUTS

Ranges: 4-20 mA DC
 Configuration: bipolar differential
 Impedance: 300 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 Coeff.: 100 ppm per °C typical

ENVIRONMENT

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

POWER SUPPLY

Optional Backlight: powered by the milliamp control loop
 24 VDC at 35 mA typical

MOUNTING

snap-in bezel mount

CONNECTION

2 screw terminal (4 with backlight)



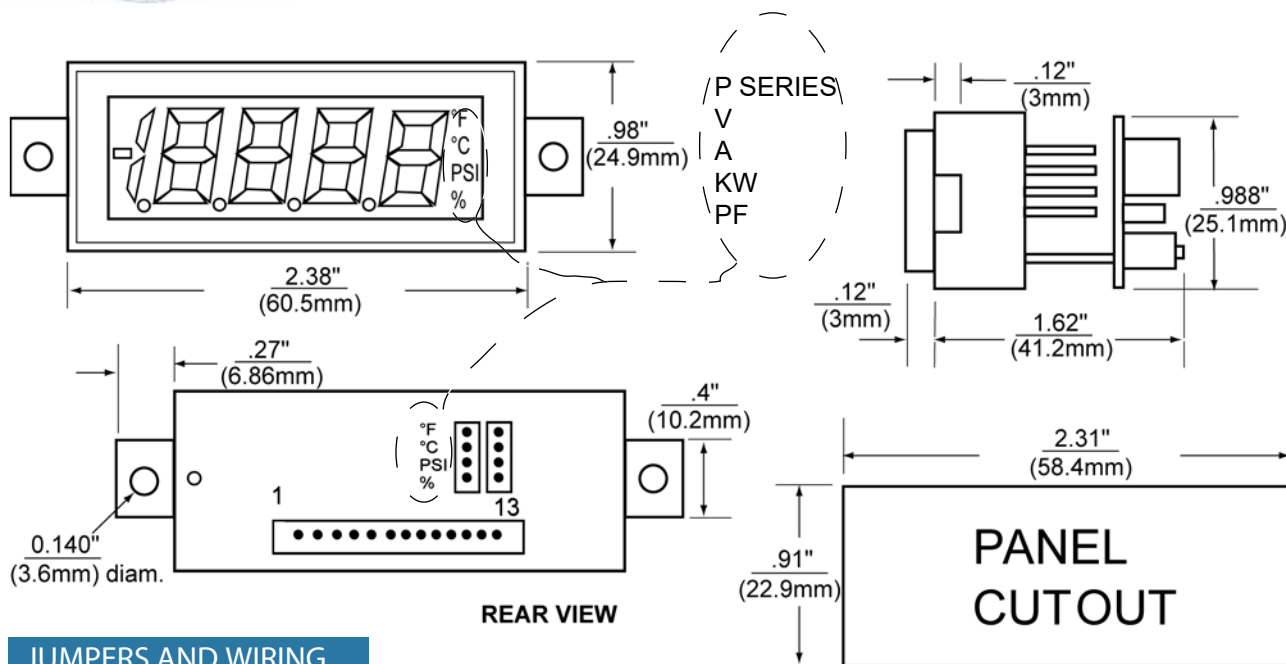
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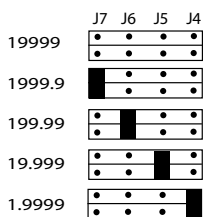


DIMENSIONS

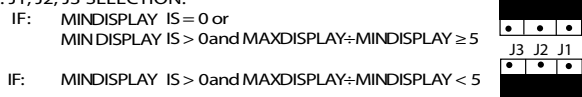


JUMPERS AND WIRING

1. DECIMAL SELECTION:



2. J1, J2, J3 SELECTION:



3. SPAN JUMPER SECTION:

SPANFACTOR	SET JUMPERS
0-12	L
10-22	M
22-32	H

IF: MINDISPLAY IS ≤ 0 or MINDISPLAY IS > 0 and MAXDISPLAY ÷ MINDISPLAY > 5
 THEN: SPANFACTOR = $\frac{2.5 (\text{MAXDISPLAY} - \text{MINDISPLAY})}{4000 + 0.02 (\text{MINDISPLAY}) - 0.004 (\text{MAXDISPLAY})}$

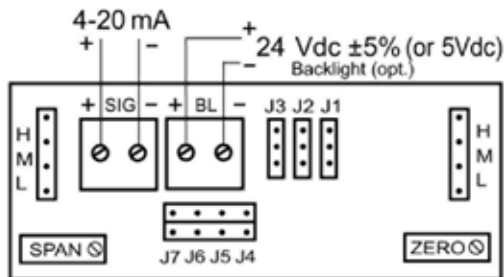
IF: MINDISPLAY IS > 0 and MAXDISPLAY ÷ MINDISPLAY ≤ 5
 THEN: SPANFACTOR = $\frac{\text{MAXDISPLAY} - \text{MINDISPLAY}}{1600}$

4. ZERO (OFFSET) JUMPER SELECTION:

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

IF: MINDISPLAY IS ≤ 0 or MINDISPLAY IS > 0 and MAXDISPLAY ÷ MINDISPLAY > 5
 THEN: ZERO FACTOR = $\frac{(250000 + \text{MINDISPLAY}) \times (83834) - 73200}{(250000 + 400 (\text{SPANFACTOR}))}$

IF: MINDISPLAY IS > 0 and MAXDISPLAY ÷ MINDISPLAY ≤ 5
 THEN: ZERO FACTOR = $10634 - (\text{MINDISPLAY} - 400 (\text{SPANFACTOR})) \times 83834 / 250000$



WIRING