



HLPI-3-XEC Series

3.5 Digit Loop Powered LCD Panel Meter

3½ Digit LCD with Loop Powered Board

Specifications

Display

Digits: 3 ½ 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 & < -1999

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: -10 to 70 °C

Power Supply

powered by the milliamp control loop

Optional Backlight: 24 VDC at 35 mA typical

Mounting

snap-in panel mount
 or clamp and gasket

Connection

2 screw terminal (4 with backlight)



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.
- 3½ digits with high-contrast LCD.
- 4-20 mA loop powered input.
- User-selectable, displayed engineering units.

Ordering Information

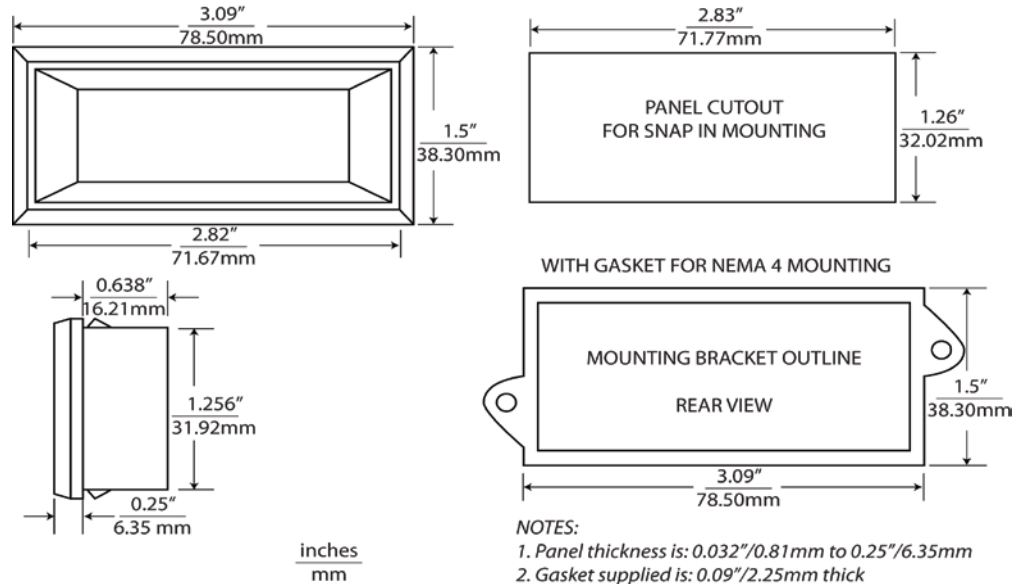
Part Number	Backlight Color	Backlight Power
HLPI-3-XEC	NO BACKLIGHT	NONE
HLPI-3A-XEC	NEG AMBER	24VDC
HLPI-3G-XEC	NEG GREEN	24VDC
HLPI-3R-XEC	NEG RED	24VDC
HLPI-3GP-XEC	POS GREEN	24VDC



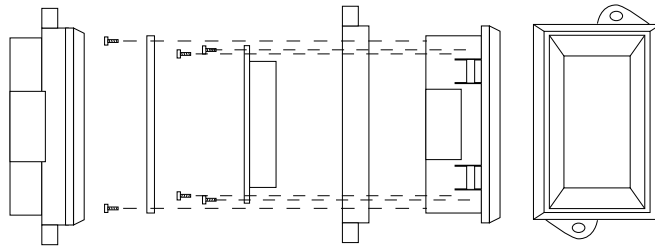
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Dimensions

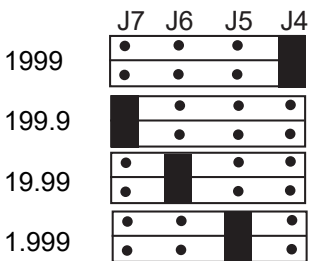


NOTES:
 1. Panel thickness is: 0.032"/0.81mm to 0.25"/6.35mm
 2. Gasket supplied is: 0.09"/2.25mm thick



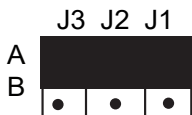
Wiring

1. Decimal Selection:



2. J1, J2, J3 Selection:

IF: Offset (Zero) IS 0 **OR**
 Offset (Zero) > 0 **AND** Gain (Span) ÷ Offset (Zero) ≥ 5



IF: Offset (Zero) > 0 **AND** Gain (Span) ÷ Offset (Zero) < 5

