HLPI-3-XEC Series

3.5 Digit LCD Panel Meter

3½ Digit LCD with Loop Powered Board

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

Specifications

Display

Digits:	3 ½ digits (±1999 counts)
Type:	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:	fthree 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)

Hoyt Electrical Instrument Works, Inc.
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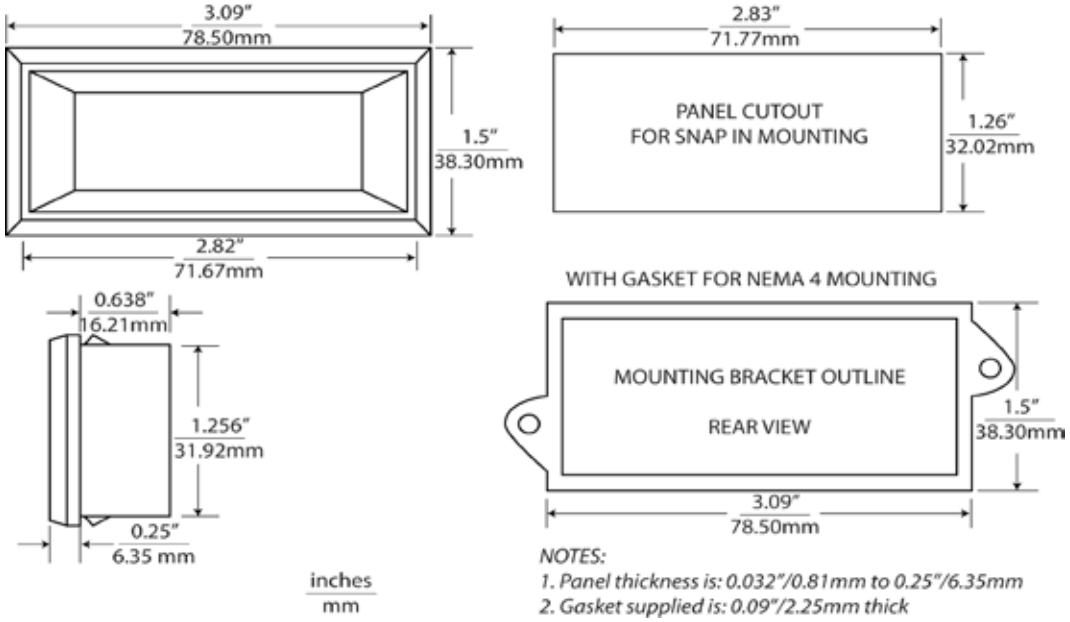
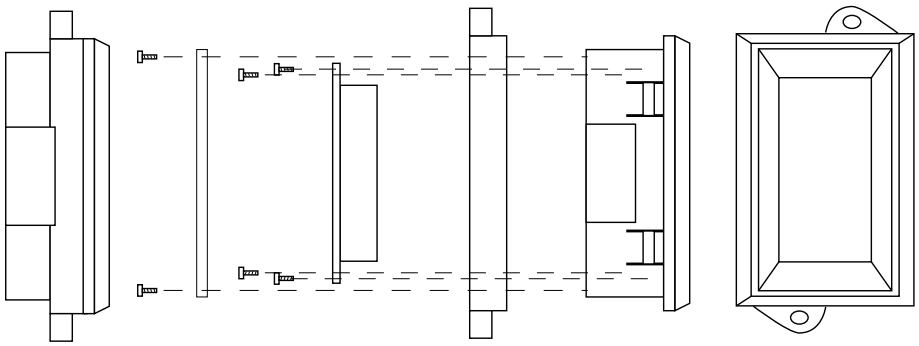
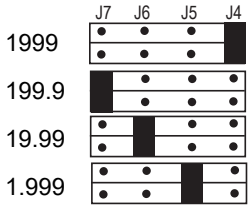
Dimensions

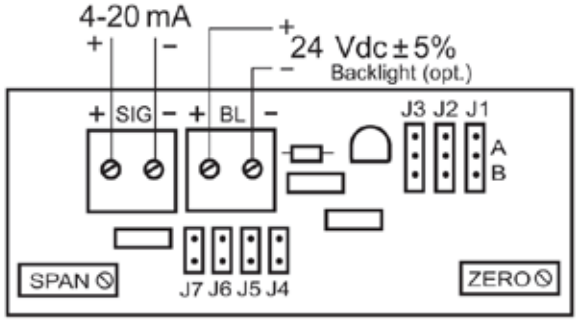




Wiring

1. Decimal Selection:

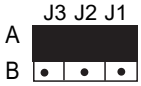




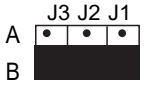
2. J1, J2, J3 Selection:

IF: Offset (Zero) = 0 or

Offset (Zero) > 0 and Gain (Span) ÷ Offset (Zero)≥ 5



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



(13 pin header)

(lower)

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