



# HLPI-800 Series

## 3.5 Digit LCD Panel Meter

### Features

- Large 1", 3½ digit display for easy viewing.
- User-selectable decimal points.
- User-selectable engineering units.
- Non-backlit LCD or choice of AMBER, GREEN, RED or BLUE backlit LCD.
- Wide ZERO (Offset) & SPAN (Gain) adjustment.
- Standard 1/8 DIN package.
- Snap-in panel mounting.
- Gasket and clamp provided for NEMA 4, NEMA 12 & IP66 applications.

### Specifications

#### Display

- Digits: 3 ½ digits (±1999 counts)
- Type: 1" (24.9 mm) 7 segment high contrast LCD
- Polarity: automatic, "-" displayed
- Annunciators: °F, °C, PSI, %, user-selectable or V, A, KW, PF
- Decimal Points: 3 position, user-selectable
- Overrange: three lower order digits blank for inputs >1999 & < -1999

#### Inputs

- Current Range: 4 to 20mA
- Configuration: single ended
- Impedance: 390 KΩ min.

#### Performance

- Accuracy: ±(0.05% of full scale + 1 count)
- Conversion Rate: 3 per second
- Normal Mode Rejection: >30 dB @ 60 Hz
- Adjustments: 25 turn potentiometers
- Warmup: 10 minutes typical
- Temperature Coeff.: ± 100 ppm per °C typical
- Offset Range: -1999 to +1999
- Gain Range: 1 to 1999 (custom ranges available)

#### Environment

- Operating Range: -10 to 50 °C
- Storage Range: -10 to 75 °C

#### Power Supply

- Loop Powered: 300Ω nominal at 20 mA (LPI)
- Backlighting: 35 mA typical @ 24 VDC

#### Mounting

snap-in bezel mount or clamp and gasket (included)

#### Connection

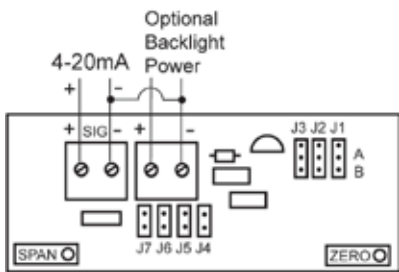
screw terminals



### Large 1" - 3½ Digit Loop Powered DPM

#### Wiring

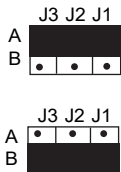
##### 1. Decimal Selection:



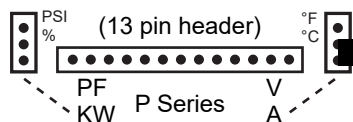
(upper)

##### 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



NOTE: If backlight supply is not loop supply, ground should be referenced together

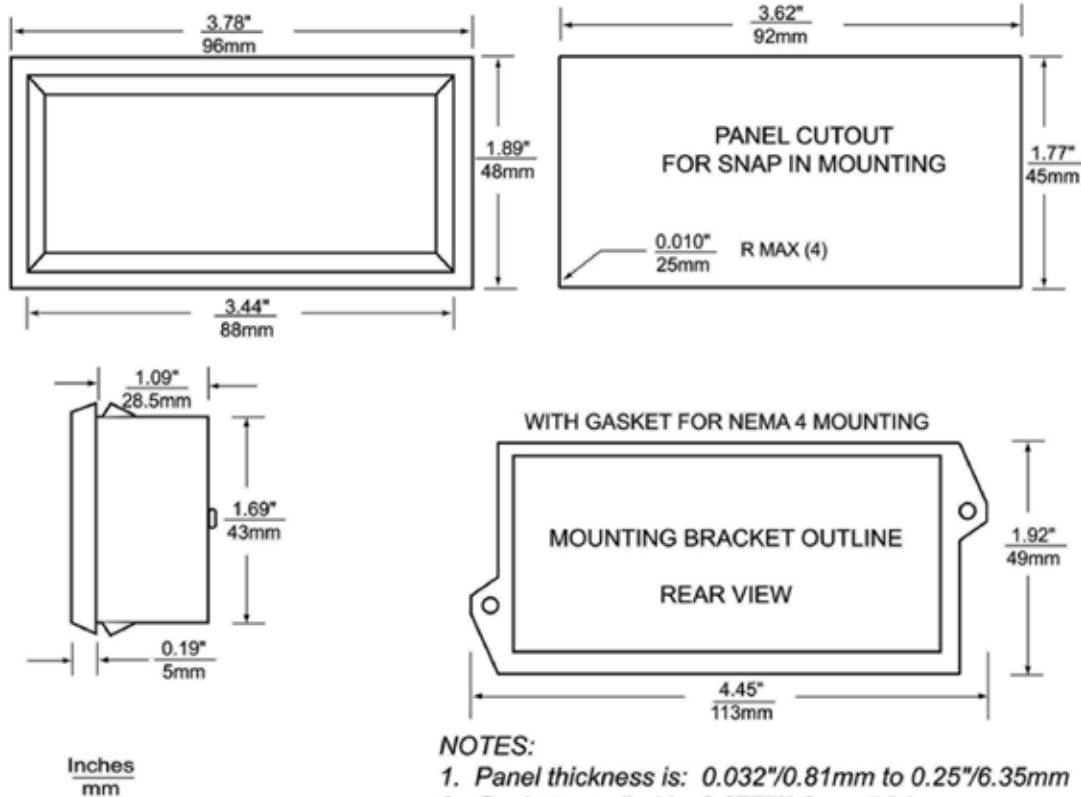




# HLPI-800 Series

## 3.5 Digit LCD Panel Meter

### Dimensions



### Ordering Information

Part Number	Backlight Color	Meter Input	Meter Power	Backlight Power
HLPI-807*	NO BACKLIGHT	4-20mA	mA loop	NONE
HLPI-807*A	AMBER	4-20mA	mA loop	24VDC
HLPI-807*B	BLUE	4-20mA	mA loop	24VDC
HLPI-807*G	GREEN	4-20mA	mA loop	24VDC
HLPI-807*R	RED	4-20mA	mA loop	24VDC

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