



### 3½ Digit Flat Pack LCD with Loop Powered Adder Board

#### Features

- Low-cost, high-performance replacement for many OEM DPMs.
- Surface or inside panel mounting.
- Resistant to RF and EMI.
- 3½ digits with high-contrast LCD.
- 4-20 mA loop powered input.

#### Ordering Information

**Part Number:** HLPI-J1

#### Specifications

##### Display

Digits: 3 ½ digits ( $\pm 1999$  counts)  
Type: 0.5" (12 mm) 7 segment LCD  
Polarity: automatic, "-" displayed  
Decimal Points: 3 position, user-selectable  
Overrange: three lower order digits blank for inputs  $>1999$  &  $< -1999$

##### Inputs

Ranges: Ranges: 4-20 mA DC  
Configuration: bipolar, differential  
Protection: 30 mA max.  
Loop Burden: 300 $\Omega$  nominal

##### Performance

Accuracy:  $\pm(0.1\% \text{ fs} + 2 \text{ count})$   
Conversion Rate: 3 per second  
Normal Mode Rejection:  $>30 \text{ dB @ } 60 \text{ Hz}$   
Adjustments: span (gain) and zero (offset)  
Warmup: 10 minutes typical  
Temperature Coeff.:  $\pm 100 \text{ ppm per } ^\circ\text{C}$  typical

##### Environment

Operating Range: 0 to 50  $^\circ\text{C}$   
Storage Range: -20 to 70  $^\circ\text{C}$

##### Power Supply

powered by the milliamp control loop

##### Mounting

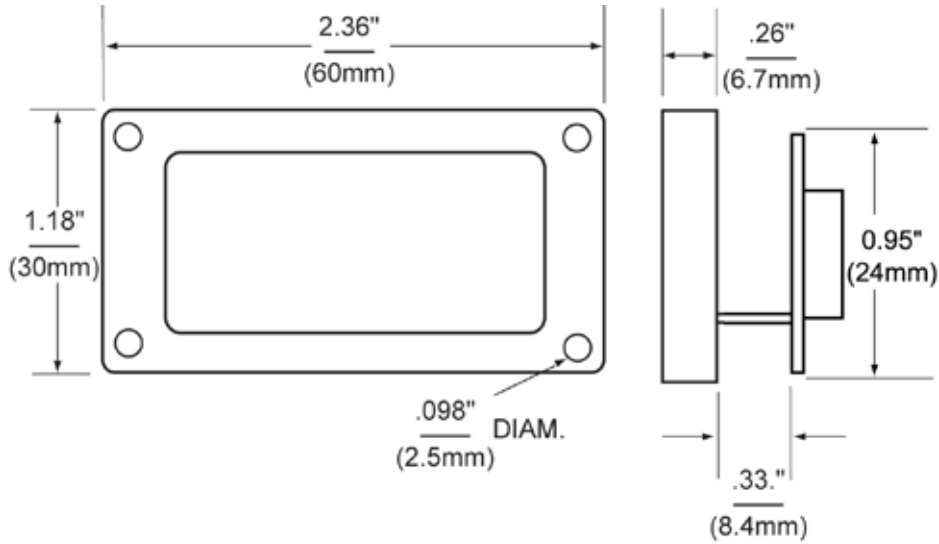
surface

##### Connection

2 screw terminal

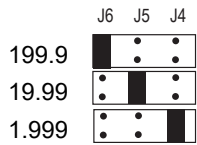


### Dimensions



### 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

