



# LP400

## LOOP POWERED DISPLAY

### FEATURES

- Provides 3½ Digit Liquid Crystal Display (LCD) Proportional to a Process Loop Current
- Loop Powered
- Easy-to-Read 0.8" Digits
- Trailing Dummy Zero ( $\pm 19990$ )
- Switch-Selectable Engineering Units / Loop Current Display
- Splashproof and Corrosion Resistant Housing
- 5 Year Warranty

### DESCRIPTION

The LP400 Loop Powered Display provides digital indication of a 4/20 mA or 10/50 mA process loop signal. The display takes its operating power from the loop current and requires no other source of power.

Wide-ranging zero and span adjustments plus switch selectable decimal point location and trailing zero allow the display to be calibrated in engineering units. A front panel

Engineering Units/Loop Current switch permits a quick check of the process signal without recalibration.

Designed for field mounting, the LP400 is splashproof and corrosion resistant and operates from -40 to 185°F (-40 to 85°C). The circuit board is conformal coated for protection from humidity and contamination. Optional accessories include a pipe mounting kit, and a mounting plate

which allows a Wilkerson Instrument Company two-wire transmitter to be installed within the LP400's housing.

### TYPICAL APPLICATIONS

Displaying process variables where line power is NOT available.

### SPECIFICATIONS

#### INPUT RANGE

4/20 mA or  
10/50 mA

#### INPUT VOLTAGE DROP

3.5 V max. (equivalent to 175 ohms at 20 mA or 70 ohms at 50 mA)

#### ACCURACY

$\pm(0.05\%$  of reading  
plus 1 digit)

#### DISPLAY

Digit Size  
0.8" LCD,  
3½ digits,  
 $\pm 1999$

Switchable Decimal Points and  
Trailing Zero  
 $\pm 1.9.9.9.0$

Control Range Zero  
 $\pm 1999$

Span  
(full scale minus zero)  
min span 10/max span 3998

Update  
3/sec

#### DISPLAY SWITCH

Allows quick check of loop  
current (400/1999 or 100/500)  
Decimal point remains in  
engineering units position

#### OPERATING TEMPERATURE

-40°F to 185°F/-40°C to 85°C

#### TEMPERATURE STABILITY

$\pm(0.01\%$  of span plus 0.01% of  
display zero offset)/°C

#### POWER

Supplied by input current  
no separate power required

#### HOUSING

Splashproof and corrosion  
resistant

**ORDERING INFORMATION**

**INPUT**

**Select Units**

4/20 mADC    10/50 mADC

**DISPLAY**

**Enter Display**

Zero Scale

Full Scale

**Select Display Logic**

Normal Acting  
 Reverse Acting

**TAGS**

**Specify Tag Numbers**

Tag number is typed on product label at no charge.

**Enter Tag Number(s)**

**ACCESSORIES**

**LP400**

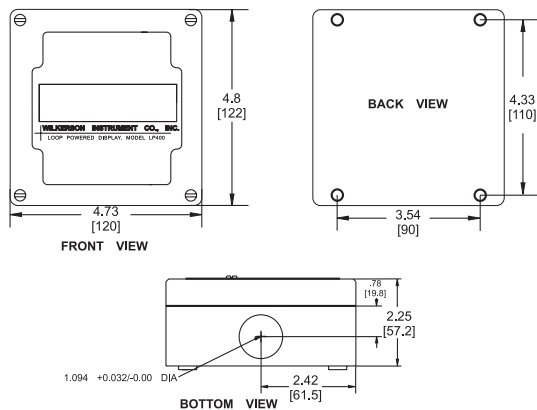
PMK400

Pipe Mounting Kit for LP400

QTY \_\_\_\_\_

**DIMENSIONS**

Inches [mm]



**CONNECTIONS**

PIN +  
 PIN -  
 PIN Center Pins

Input +  
 Input -  
 Tie Points



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