The LP420 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. An Engineering Units/Loop Current switch permits a quick check of the process signal without recalibration. The LP420 is mounted in an explosion-proof housing and operates from -40°F to 185°F (-40 to 85°C). The circuit boards are conformal coated for protection from humidity and contamination.

### FEATURES
- Provides 3½ Digit Liquid Crystal (LCD) Readout Proportional to a Process Loop Current
- Loop Powered
- Trailing Dummy Zero (±19990)
- Switch-Selectable Engineering Units/Loop Current Display
- Explosion-Proof Housing
- 5 Year Warranty

### DESCRIPTION

Displaying process variables where line power is NOT available, and in hazardous (explosive) atmospheres.

### 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
±(0.05% of reading plus 1 digit)

#### DISPLAY
- Digit Size
  0.35" LCD, 3½ digits, ±1999
- Switchable Decimal Points and Trailing Zero
  ±1.9.9.9 0
- Control Range
  Zero ±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
±(0.01% of span plus 0.01% of display zero offset)/°C

#### POWER
Supplied by input current no separate power required

### HOUSING
- Explosion-proof
  (Killark HK Series)
- Housing is:
  FM Approved and CSA Certified for the following locations:
  Class I, Divisions 1 and 2; Groups B, C, and D
  Class II, Divisions 1 and 2; Groups E, F, and G
  Class III, Nema 3, 4, 7, and 9
  International Approvals (IEC)

* HK series enclosures are designed to meet flameproof requirements as defined by CENELEC (EURONORM Standard 50018)

* BASEEFA Certified
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

LP420
No accessories available at this time.

DIMENSIONS

Inches [mm]

CONNECTIONS

PIN +  Input +
PIN -  Input -
PIN Center Pins  Tie Points

2915 Parkway Street
Lakeland, FL 33811-1391 · USA
800-234-1343

Tel: 863-647-2000 · Fax: 863-644-5318
www.wici.com · Email:sales@wici.com