



LP420

LOOP POWERED DISPLAY

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

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° to 185°F (-40 to 85°C). The circuit boards are conformal coated for protection from humidity and contamination.

TYPICAL APPLICATIONS

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

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

DISPLAY

Digit Size
0.35" LCD,
3½ digits, ± 1999
Switchable Decimal Points and
Trailing Zero
 $\pm 1.9.9.9 0$
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

$\pm(0.01\%$ of span plus 0.01%
of display zero offset)/ $^{\circ}\text{C}$

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 mA DC 10/50 mA DC

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)

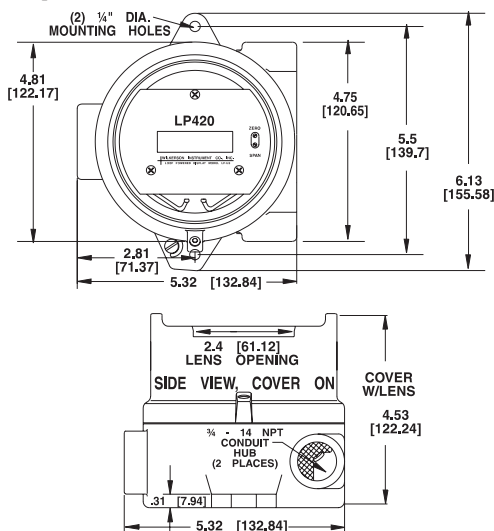
ACCESSORIES

LP420

No accessories available at this time.

DIMENSIONS

Inches [mm]



CONNECTIONS

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



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