DEVAR Inc.

LOOP POWERED INDICATOR
3 ½ OR 4 ½ DIGIT
MODEL 18-SLPI

*** ENGINEERING UNIT READOUT**

*** COMPACT HORIZONTAL OR VERTICAL MOUNTING**

*** NEMA 4-X PACKAGE**

*** LINEAR OR SQ. ROOT RESPONSE**

FM APPROVED **INSTRINSICALLY SAFE**

GENERAL DESCRIPTION

Engineering readout of standard 4 to 20 mA process variables is provided by Devar Model 18-SLPI, Loop Powered Indicator. This unit requires no external power to operate. It derives its operational power from the first 4 mA in the 4 to 20 mA loop. This allows the 18-SLPI to be utilized wherever a convenient viewing spot exists along the 4 to 20 mA loop.

CONFIGURATION

Ease of configuration is featured by the 18-SLPI. You simply select the appropriate Dip Switch positions determined by the span and offset ranges to be displayed in engineering units. You then apply a 4 to 20 mA calibration signal, adjust the zero and span pots one time (they are non-interactive), select the proper decimal point location and you are ready to read.

The 18-SLPI-IV, not only offers a one volt drop but also eliminates the need for an external calibrator. The unit features a built-in calibrator and need not be removed from the loop for configuration. You simply switch to the calibration mode, adjust span and zero pots and switches and then switch back to operate without disturbing loop wiring.

PACKAGING

Devar's Model 18-SLPI Loop Powered Indicator utilizes the field proven indicator assembly also used in the Model 18-LPIX, Explosion Proof package. The circular assembly allows for ease of positioning within the NEMA 4X case so that the unit may be rotated 90° to provide horizontal or vertical mounting. The clear polycarbonate cover provides obstruction free viewing of the 3-1/2 or 4-1/2 digit display.

The compact 3 x 4 x 2-5/8 deep NEMA-4X case may be surface mounted via 4 corner mounting holes. Pipe mounting, panel mounting, snap or DIN. Rail mounting options are also available. Note: The panel mount option provides a watertight meter, with "0" ring, gasket, and stainless steel bezel establishing a fully watertight panel mount. The 18-SLPI is available as a 3-1/2 or 4-1/2 digit indicator with linear or square root response. A 1.0 or 3.0 VDC DROP may be ordered along with a wide temperature option of -40 to +185°F.

SPECIFICATIONS

INPUT: 4 to 20 mA

Model No:	18-SLPI-3 (3.5 digit)	18-SLPI-4 (4.5digit)	18-SLPI-1V (3.5digit)
Voltage Drop:	3.0VDC	3.3VDC	1.0VDC

MAX INPUT CURRENT (forward or reverse):

	60mA	60mA	100mA

DISPLAY: 7 Segment LCD

Char. Hight.:	0.5in.	0.4in.	0.5in.
Characters:	1.8.8.8	1.8.8.8.8	1.8.8.8

DECIMAL PT.

(or absent)	3 Position	4 Position	3 Position

POLARITY INDICATION: Negative sign

OVERRANGE INDICATION: Blanks least significant

	3 digits	4 digits	3 digits
Range:	±1999 cts	±19999 cts	±1999 cts

CALIBRATION:

Span counts:	0 to 3998	0 to 39998	0 to 3998
Offset (zero) :	±1999 cts	±19999 cts	±1999 cts
Trim:	Non-Interacting Span and Zero Pots		

PERFORMANCE:

Resolution:	Better than 1 count		
Accuracy:	±0.1% of span ±1 ct	Reading ±3 cts	±0.1% of span ±1 ct

TEMP. EFFECT

(typical)	±0.01% of span/ ºC	±0.001% of span +0.4 cts/ ºC	±0.01% of span/ ºC

OPERATING TEMP: -20 TO 70ºC -30 TO 60ºC -20 to 70ºC

SAMPLE RATE: 2 Hz 2.4 Hz 2Hz

ENCLOSURES: NEMA-4X POLYCARBONATE

Weight: 1 lb

ORDERING INFORMATION:

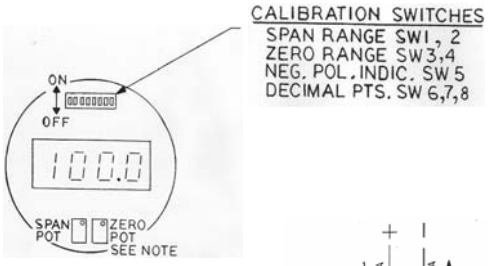
Specifiy Model No.

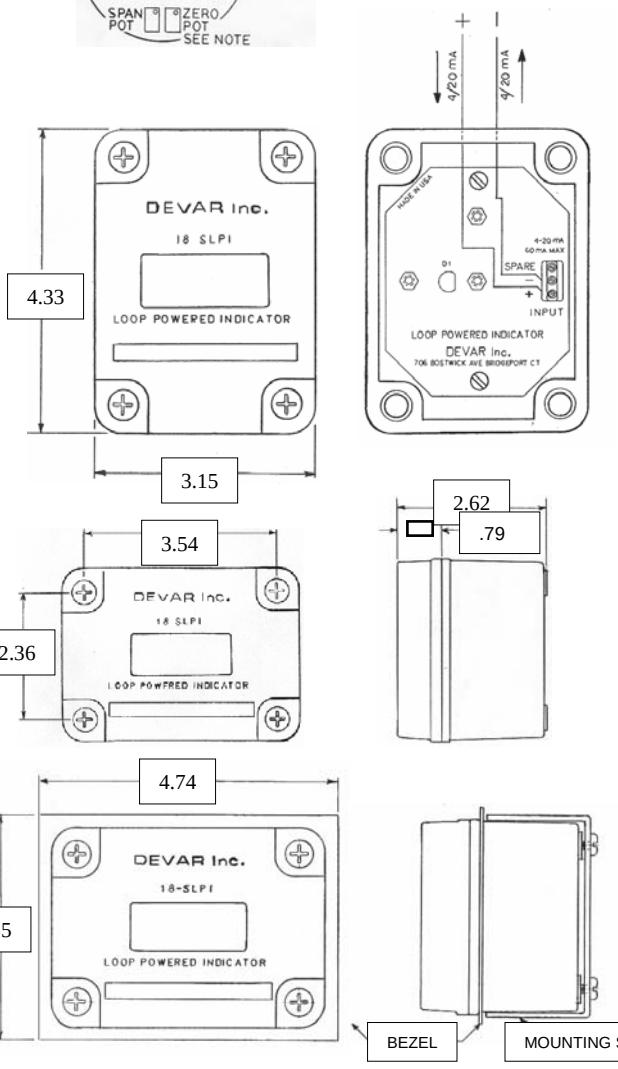
Add desired Option(s) below

-M36	Pipe
-M31S	Snap Track
-M42	Conduit
-M46	Panel Mt. (NEMA 4)
-SR	Sq. Root Response
-WT	Wide Temp. (-40 to 85º)

BULLENTIN 18-SLPI 7/02

CALIBRATION SWITCH SETTINGS					
SPAN	S1	S2	ZERO	S3	S4
4000/2470	ON	OFF	2000/ 573	OFF	ON
2470/1530	OFF	OFF	573/ -573	OFF	OFF
1530/ 000	OFF	ON	-573/-2000	ON	OFF
ENABLE DECIMAL POINT			TO ENABLE NEGATIVE POLARITY INDICATION		
1.999	S6	ON	S5 ON		
19.99	S7	ON			
199.9	S8	ON			





(PANEL CUTOUT 4.25 x 3.06
-M46 PANEL MOUNT DIMENSIONS)

DEVAR Inc.

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