

- * ENGINEERING UNIT READOUT
- * COMPACT HORIZONTAL OR VERTICAL MOUNTING
- * NEMA 4X ENCLOSURE
- * LINEAR OR SQUARE ROOT RESPONSE



INTRINSICALLY SAFE

APPROVED



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-1V, 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.

ENCLOSURE

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 "O" 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 range option of -40 to +185°F.

SPECIFICATIONS

INPUT: 4 to 20 mA

Model No.	18-SLPI-3 (3.5 digit)	18-SLPI-4 (4.5 digit)	18-SLPI-1V (3.5 digit)
Voltage Drop:	3.0 VDC	3.3 VDC	1.0 VDC
Max Input Current:	60 mA	60 mA	100 mA

PERFORMANCE:

Resolution:		Better than 1 Count	
Accuracy:	± 0.1% of span ± 1 count	Reading ±3 counts	± 0.1% of span ± 1 count

OPERATING TEMPERATURE:	-20° to 70°C	-30° to 60°C	-20 to 70°C
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TEMPERATURE EFFECT:(Typ.)	±0.01% of span/°C	±0.001% of span +0.4 counts/°C	±0.01% of span/°C
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DISPLAY:		(7 Segment LCD)	
Character Height:	0.5 inches	0.4 inches	0.5 inches
Characters:	1.8.8.8	1.8.8.8.8	1.8.8.8

DECIMAL POINT (or absent)	3 Position	4 Position	3 Position
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SAMPLE RATE:	2 Hz	2.4 Hz	2 Hz
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POLARITY INDICATION:		Negative Sign	
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CALIBRATION:

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

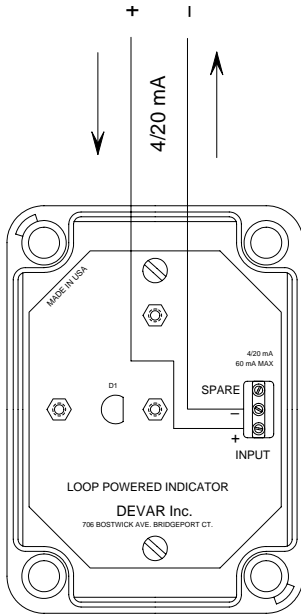
OVERRANGE INDICATION:

Blanks least significant	3 Digits	4 Digits	3 Digits
Range:	±1999 counts	±19999 counts	±1999 counts

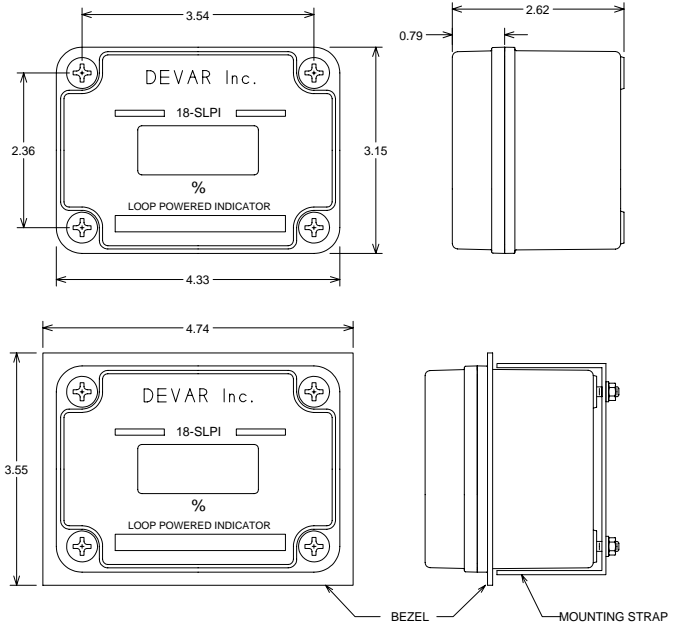
ENCLOSURES:

Weight: NEMA 4X Polycarbonate

1 lb.



FIELD WIRING



ORDERING INFORMATION

Specify Model No. <18-SLPI-3, 18-SLPI-4, or 18-SLPI-1V>

Add desired Option(s) below

- M362" Pipe Mount
- M31S SnapTrack Mount
- M42 Conduit
- M46 NEMA 4 Panel Mount
- SR Square Root Response
- WT Wide Temperature (-40 to 185°F)

DEVAR Inc.

706 BOSTWICK AVE.
 BRIDGEPORT, CT 06605-2396
 TEL: 203-368-6751 FAX: 203-368-3747
 TOLL FREE: (800) 566-6822
 www.devarinc.com