

- * ENGINEERING UNIT READOUT
- * 4 ACTIVE DIGITS
- * NEMA 4X ENCLOSURE
- * OPTIONAL BACKLIGHT



GENERAL DESCRIPTION

The PB-LPI-NE4 is a two wire digital indicator that monitors a 4 to 20 mA process signal and provides local indication on a liquid crystal display. The meter features four active digits with half inch high, easy to read characters that can be displayed with or without backlight. The meter requires no external power supply as it derives its power directly from the 4 to 20 mA input signal, dropping only one volt across its input terminals when the backlight is not used and approximately five volts when the backlight is turned on.

The PB-LPI-NE4 provides a digital readout directly proportional to the milliamp input. The indicator is configured at the factory to display zero to one hundred percent for a 4 to 20 mA input signal. It can be easily reconfigured in the field to read directly in engineering units (e.g. °F, GPM, feet of water ...). Configuration of the PB-LPI-NE4 is accomplished using three buttons located at the rear of the display.

The display can be forward or reverse acting and can be configured to display any combination of numbers between -1999 and +9999.

The compact 3 × 4 × 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.

Inside the enclosure a four position terminal block is provided behind the display for field wiring. To operate the meter with the backlight on, wire between the +IN A and the -IN terminals. To operate the meter with backlight turned off wire between the +IN B and the -IN terminals. A SPARE terminal is also provided as a tie point.

SPECIFICATIONS

1. INPUT

- a. Range 4 to 20 mA
- b. Voltage Drop (light ON)..... 5.2 VDC
- c. Voltage Drop (light OFF)..... 1 VDC
- d. Maximum Forward Current 60 mA
- e. Maximum Reverse Current 100 mA

2. DISPLAY

- a. Type..... 4 digit, LCD
1/2" high digits
- b. Backlight LED, hype-orange,
select by input wiring

3. CONFIGURATION

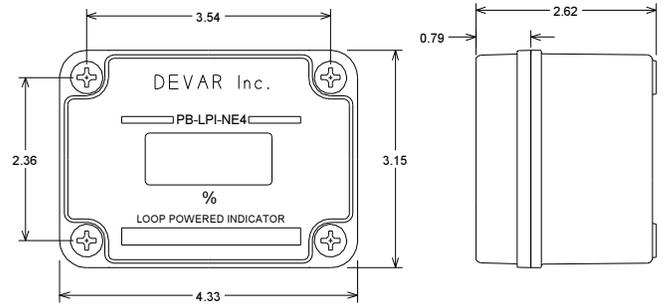
- a. Display at 20 mA..... -1999 to
9999 counts
- b. Display at 4 mA..... -1999 to
9999 counts
- c. Zero offset range..... -1999 to
9999 counts
- d. Decimal point User selectable
- e. Configuration method Push button

4. PERFORMANCE

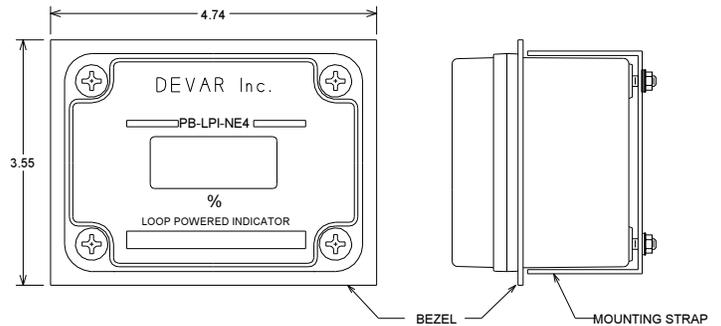
- a. Resolution 16 bits
- b. Calibration Accuracy $\pm 0.05\%$ of span
- c. Temperature effect ± 0.015 of span
per °C, typ.
- d. Temperature Range -30 to +85°C

5. ENCLOSURE

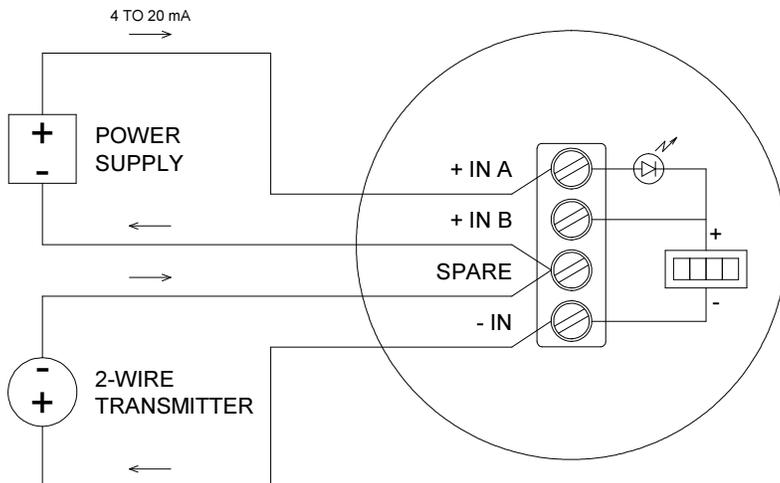
- a. Material Polycarbonate body,
Acrylic window
- b. Rating NEMA 4X



PB-LPI-NE4



PB-LPI-NE4-M46
NEMA 4 PANEL MOUNT OPTION



FIELD WIRING

TYPICAL WIRING SHOWING 2-WIRE TRANSMITTER WITH EXTERNAL POWER SUPPLY, WIRED WITH BACK LIGHT TURNED ON

ORDERING INFORMATION

Add desired Option(s) below

- M31D DIN Rail Mount
- M31S 3" SnapTrack Mounting Bracket
- M36 2" Pipe Mount Kit
- M42 1/2" Watertight Conduit
- M46 NEMA 4 Panel Mounting Hardware

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