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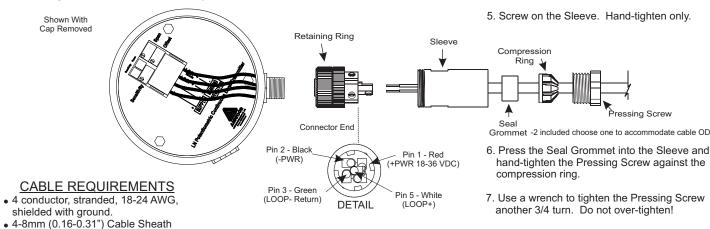
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Technical Bulletin

LN Potentiometric Level Transmitter
Quick Start Installation Guide

Section 1 - Field Wireable Connector

- Insert cable through Pressing Screw, Compression Ring, Seal Grommet, and Sleeve as shown below.
- 2. Strip back 1-1/4" of outer sheathing, cut off any excess wires, shield and ground. Strip off 1/4" insulation from remaining four wires. It is not necessary or recommended
- Orient Connector end so that center pin connecting screw is horizontal facing right (see detail)
- Wire PWR + (red) wire to top-right terminal, and PWR - (black) wire to top-left terminal. Wire LOOP + (white) to center terminal and LOOP - (green) to bottom left terminal.



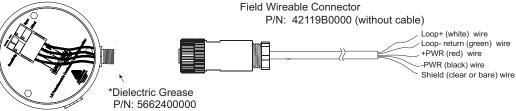
To install connector, simply line up key, press into receptacle, and hand-tighten the

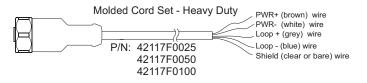
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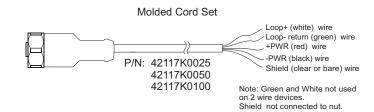
*Receptacle pins should be coated with

*Receptacle pins should be coated with USDA approved dielectric grease to Minimize possibility of corrosion.

OD.







Section 4 - Installation / Calibration Verification

Operation

- Probe may not be cut! Trimming the probe length will disable the sensor and VOID warranty.
- The process connection must have electrical contact with the tank, therefore LN's must be clamped on fitting for proper operation.
- Single probe LN's are suitable for installation in linear metallic tanks with probe parallel to tank wall. Non-parallel installation will increase reading error.
- Dual probe LN's are suitable for installation in nonmetallic and/or non-linear tanks.
- · Sensor probe must not touch tank wall.
- For accuracy and proper operation, measured media should be homogeneous with respect to temperature and conductivity. Media must have a conductivity of at least 1 µS/cm.
- The LN is shipped calibrated to the bottom of the Teflon® coating. Normally at installation, additional adjustments are not required.
- A turndown of up to 30% below top of probe is possible if 20mA output is desired at less than full rod height. Follow SPAN ADJUST for this feature.

Calibration

Zero Adjust

- 1. Connect power supply as shown in Section 1.
- Connect Digital MultiMeter to output. With empty vessel (uncovered probe) signal output is 2.4mA.
- 3. Fill vessel until level contacts probe. Adjust OFFSET until signal output is 4.0mA (see Fig. 1).

Span Adjust

- 1. Connect power supply as shown in Section 1.
- 2. Connect Digital MultiMeter to output.
- Fill vessel until maximum level desired. Adjust SPAN until signal output is 20.0mA (see Fig. 1).

Note

- Probe will not measure in Teflon® coated zone. Maximum level must be below the Teflon® zone.
- Max turn down is 30% of full probe length (including Teflon® coated area) from the top e.g. 30" rod length with 4" Teflon® coating may adjusted from 26" down to 21"
- Span and Zero are normally non interactive however significant turndown adjustment may require an additional Re-Zero step.

Sensitivity

Typically adjustment is not required. If calibration is needed, perform the following with the least conductive media:

- 1. Connect power supply as shown in Section 1.
- 2. Fill vessel until media level contacts probe.
- Observe red LED labeled SENSITIVITY (see Fig. 2 LN Sensitivity Table).
 - If the LED remains off or only blinks on briefly, turn SENSITIVITY clockwise.
 - If the LED remains on continuously, turn SENSITIVITY counterclockwise.

Note:

The objective is to achieve state 3 on the LN Sensitivity Table. The red LED should be lit with a brief off blink.

