# STOP READ THIS FIRST

## Installation and Startup Guide

# "L3" Pressure & Level Transmitter

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### **PRODUCT DESCRIPTION**

The Anderson-Negele L3 Pressure and Level Transmitter has been designed to measure process pressure or hydrostatic level in sanitary process applications. The state-of-the-art temperature compensation reduces errors associated with process temperature changes with improved zero stability reduces sensor interaction. The graphical user interface makes set-up and programming easy by directly aligning to the Hart DD menu structure. The field repairable and reconfigurable design allows the user to change the display orientation, add a remote cable, or replace a component in the field without impact to accuracy.

www.anderson-negele.com

#### **SENSOR WIRING**

To facilitate electrical connections the L3 transmitter will be provided with either a 5 pin M12 quick disconnect receptacle, a M16 thread cable gland, or a ½" NPTF threaded adaptor. Shielded cable is recommended. See manual for additional detail.

Field wireable connectors or molded cordsets are available as accessories from Anderson-Negele.

#### FIELD WIREABLE CONNECTOR ASSEMBLY - ORDERED AS ACCESSORY

- 1. Insert cable through Pressing Screw, Compression Ring, Seal Grommet, and Sleeve as shown below.
- Strip back 1-1/4" of outer sheathing, cut off any excess wires, shield and ground. Strip off 1/4" insulation from remaining two wires. It is not necessary or recommended
- Orient Connector end so that center pin connecting screw is horizontal facing right (see detail).
- Wire LOOP+ (red) wire to top-right terminal, and LOOP- (black) wire to top-left terminal. No connection is made to the center and bottom terminals.

5. Screw on the Sleeve. Hand-tighten only.



#### **MOLDED CORD SETS**

Shown with



#### **USER INTERFACE GUIDE**

The L3 transmitter may be configured via the onboard 4 button display or through Hart communication. This section will describe configuration through the onboard display.

Configuration menus are shown graphically in the manual along with the resulting actions from pressing any of the buttons.



**If a status message is present the following additional actions may be taken:** Pressing "E" will temporarily display an explanation of the numerical status message Pressing and holding the down arrow will clear the warning message.

#### **mA** Calibration

When a transmitter is added to a system for the first time a mA calibration should be performed to ensure the sensor's 4mA and 20mA points align with the control system in which it is installed. Because input cards are variable this will provide the best results and avoid programming an offset in the PLC.

The mA calibration requires the device to be installed in a control loop where the mA value may be read by observed by the operator and the display may also be accessed.



#### **Failure Mode Selection**

The L3 may be set to fail low (3.8mA output) or fail high (20.2mA output) when a valid process variable cannot be output.



#### **Re-zero**

The L3 transmitter is sensitive to both orientation and clamping forces during installation. It is important to re-zero the sensor after it has been installed. Additionally, if the diaphragm is dented or goes through a period of stress such as being steamed for the first time, it is important to zero the sensor.





#### ACCESSORIES

Cord Sets Shielded Molded w/25' cable Shielded Molded w/50' cable Shielded Molded w/100' cable	42117H0025 42117H0050 42117H0100
Clear Cap w/gaskets Stainless Steel Cap w/gaskets M12 Quick Disconnect Receptacle Cord Grip 1/2" NPTF adaptor Seal Kit (6) gaskets Field Wireable Connector-Straight Field Wireable Connector-90° 5' Remote Kit 10' Remote Kit 25' Remote Kit	56328P0001 56329P0001 SP56726A0004 SP5633100000 SP5633200000 42119B0000 42119A0000 SP73228A0005 SP73228A0010 SP73228A0025



#### DIMENSIONAL DRAWINGS