



SLX 130-EIS Operation and Maintenance

Mounting

Mount the sensor as instructed in document 10003-0001 "Model SLX Transducer Installation Instructions". Ensure that the sensor's breather tube is secured to the sealed breather system. The breather system may be located behind the enclosure's inner panel or may be a small plastic box (4.75"W X 8.25"H X 1.12"D) that may be secured to the customer's enclosure by means of double-sided tape.

Wiring

The SLX 130-E is polarity sensitive. Confirm proper wiring before powering the transducer.

Calibration

The SLX 130-E Submersible Level Transmitter is calibrated to a nominal 0.5-4.5 VDC output over the specified pressure range.

Maintenance

The SLX has been designed for a minimum amount of maintenance. If there has been flooding of the enclosure that houses the sealed breather assembly or any associated electronics clean and dry the exterior of the enclosure before opening. Inspect and test the electronics in the panel for proper operation – if liquid has reached the electronics, it is recommended that the electronics be replaced.

If applicable, it is recommended that the hydrophobic vent (part number (30010-0001) be replaced to ensure proper venting of the sensor to atmospheric pressure.

Periodically inspect the transducer's mounting. Ensure that the cable is secured by at least four cable ties.

Troubleshooting

As in Intrinsically Safe Transducer, The SLX 130-EIS is typically connected to an Intrinsically Safe Barrier. The barrier is typically a zenner based protection device, with the common of the sensor connected to earth ground via the zenner barrier. This effects the sensor's method of application when used with a T420: in this application, the power supply's Common is below Earth Ground.

Proper operating voltages when connected to a **T420** are as follows:

Loop power T420 terminals 1 & 2 (polarity sensitive due to the zenner barrier)	12-40 VDC	
Sensor excitation voltage T420 terminal 4 – positive T420 terminal 5 – common	5 VDC	+/- 0.25 VDC
Return signal T420 terminal 5 – common T420 terminal 6 – positive	0.5-4.5 VDC	Proportional to level excursion relative to sensor PSI range

Reference the T420 Calibration Literature calibration instructions.

The +5 VDC, common (ground), and return signal should be traced through the zenner barrier. The 5 VDC sensor excitation voltage will be slightly lower than 5 VDC on the output of the barrier, due to the barrier's internal resistance.

If an elevated signal is being transmitted:

- inspect the transducer's mounting and the bottom of the sump to ensure that the transducer is not resting on the bottom of the sump.
- Measure the mA draw of the sensor by inserting a mA meter in series with the excitation wire.

Refer to the SLX 130 Sales Brochure (document 10175-0001) for general reference.