



**About this Manual:** PLEASE READ THE ENTIRE MANUAL PRIOR TO INSTALLING OR USING THIS PRODUCT. This manual includes information on the LB520 series Ultrasonic Level transmitter from FTI. Please refer to the part number located on the sensor label to verify the exact model configuration, which you have purchased.

- ⚠ User's Responsibility for Safety:** FTI manufactures a broad range of level sensing technologies. While each of these sensors is designed to operate in a wide variety of applications, it is the user's responsibility to select a sensor model that is appropriate for the application, install it properly, perform tests of the installed system, and maintain all components. The failure to do so could result in property damage or serious injury.
- ⚠ Proper Installation and Handling:** Only professional staff should install and/or repair this product. Install the transmitter with the included Viton gasket and never over tighten the transmitter within the fitting. Always check for leaks prior to system start-up.
- ⚠ Wiring and Electrical:** A supply voltage of 12 to 28 VDC is used to power the LB500. Electrical wiring of the transmitter should be performed in accordance with all applicable national, state, and local codes.
- ⚠ Material Compatibility:** The transducer is made of Polyvinylidene Fluoride (PVDF). Make sure that the model, which you have selected, is chemically compatible with the application media.
- ⚠ Enclosure:** While the transmitter housing is liquid-resistant the LB500 is not designed to be operational when immersed. It should be mounted in such a way that the enclosure and transducer do not come into contact with the application media under normal operational conditions.
- ⚠ Safety**
  - Installation should be done by properly trained staff
  - Supply voltage should never exceed a maximum of 28 VDC
  - Make sure the sensor is chemically compatible with your application
  - Design a fail-safe system that accommodates the possibility of sensor and/or power failure.
  - This sensor should not be used in classified hazardous environments
- ⚠ Make a Fail-Safe System:** Design a fail-safe system that accommodates the possibility of transmitter and/or power failure. FTI recommends the use of redundant backup systems and alarms in addition to the primary system.

### **Flammable, Explosive or Hazardous Applications**

LB500 should not be used within classified hazardous environments.

- ⚠ Warning:** Always use the Viton gasket when installing the LB500, and make sure that all electrical wiring of the switch is in accordance with applicable codes.