



LTE Logger with Ultrasonic Sensor Exi

An ATEX Ultrasonic sensor specifically designed to be a low profile, non-contact, continuous liquid level sensor.

Benefits

- Up to 10 year battery life – ATEX data logger
- Accurate, reliable level reporting to server monitoring application
- Spot and continuous inventory management
- Configurable reporting schedule and alarms
- Highly configurable server reporting interval from every 2 hours to once per month
- Includes 3m/10' interface cable
- 28 slot logger with configurable logging interval
- Programmable alarms
 - High level
 - Low levels
 - Rate of level change (fill or drain)
- GPS / GLONASS Global Positioning
- IP68 protected
- Temperature compensated
- Minimum 1 year warranty
- CE Conformance and ROHS Compliant



Applications

- Remote liquid level monitoring
 - Water
 - Chemicals
 - Additives
 - Lubricants
 - Gasoline & Petroleum
 - Diesel fuel
 - Motor oil
 - Hydraulic fluid
 - Waste Oil
 - Other hazardous/non-hazardous liquids
- Works in conjunction with Tekelek Cellular ATEX data loggers

Specifications

Dimensions	3.5" (88mm) W x 3.5" (88mm) L x 1.1" (28mm) H ±0.04" (±1mm) (not including horn)
Weight	3.5oz (100g)
Housing material	UV Stabilized Polypropylene
Operating temperature	-4°F to 140°F (-20°C to 60°C) (Note 1)
Recommended storage temperature	32°F to 86°F (0°C to 30°C) (Note 1)
Humidity range	10% - 100%
Altitude range	<6500 feet (<2Km) above sea level
Environmental Protection	IP68 – Outdoors
Power requirements	3.6V to 5V DC (Supplied by logger)
Gauge Type	Ultrasonic
Ultrasonic Range	>5" to < 13 feet (>12cm to <5M) (Note 2)
Ultrasonic Resolution	±1cm
Accuracy	±2cm
Material compatibility	(Note 3)
Communications	UART serial bidirectional communications TTL 3.3V level 1200 baud, no parity, 8 data bits
ATEX approval	IECEx II (1)G Ex ia[ia] IIB T4 [-20 < Ta < +60°C] [-4 < Ta < +140°F] – Zone 0

Accessories

Gasket (included)	EPDM seal included
Adapter	2", 1¼" & 1½" Multi thread adapter

Conformity

EMC directive 2014/30/EU	The Electromagnetic Compatibility (EMC) Directive ensures that electrical and electronic equipment does not generate, or is not affected by, electromagnetic disturbance.
LVD directive 2014/35/EU	The Low Voltage Directive (LVD) ensures that electrical equipment within certain voltage limits provides a high level of protection for European citizens, and benefits fully from the Single Market
RoHs directive 2011/65/EU	This Directive lays down rules on the restriction of the use of hazardous substances in electrical and electronic equipment (EEE) with a view to contributing to the protection of human health and the environment, including the environmentally sound recovery and disposal of waste EEE.
EN 60079-11:2014 EN 60079-11:2014 EN 60079-18: 2014	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i' Electrical apparatus for explosive gas atmospheres - Part 18: Encapsulation 'm'
CE compliance	Yes

Note 1: Storage and operation above 68°F (20°C) may reduce battery life. Minimum distance measured is derated with temperatures <32°F (<0°C)

Note 2: Based on a measurement to a flat liquid target of size 4.65in² (30cm²) Using ExtendedHorn

Note 3: Suitable for use in tanks for the storage of water diesel fuel, kerosene, gas oil types A2, C1, C2 and D as defined by BS2869.