ATEX Exi Ultrasonic sensor

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

Applications

- Liquid level monitoring
- Water
- Chemicals
- Additives
- Diesel fuel
- Motor oil
- Hydraulic fluid
- Waste Oil
- Other hazardous/non hazardous liquids
- Works in conjunction with cellular Tekelek ATEX data logger

Benefits

- 5 year battery life – ATEX data logger
- Accurate, reliable tank level reporting to server monitoring application
- Spot and continuous inventory management
- Configurable reporting schedule and alarms
- Highly configurable server reporting interval from 2/hour to 1/month
- With 3m interface cable
- 28 slot logger with configurable logging interval
- Programmable Alarms
  - High level
  - Low levels
  - Rate of level change (fill or drain)
- IP68 protected
- Temperature compensated
- Minimum 1 year warranty
- CE Conformance and ROHS Compliant

- International Approvals

Specification

Characteristic	
Dimensions	88mm (W) x 88mm (L) x 28mm (H) ±1mm (not including horn)
Weight	100g
Housing Material	UV Stabilized Polypropylene
Operating Temperature	-20°C to 60°C **(Note 1)**
Storage Temperature	0°C to 30°C **(Note 1)**
Altitude Range	<2Km above sea level
Environmental Protection	IP68 – Outdoors
Gauge Type	Ultrasonic
Ultrasonic Range	>12cm to <4M **(Note 2)**
Ultrasonic Resolution	±1cm
Accuracy	±2cm
Material compatibility	**(Note 3)**
Power requirements	3.6V to 5.5V DC (Supplied by logger)
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] – Zone 0
Humidity range	10% - 100%

Accessories

Gasket	EPDM seal included
Adapter	2" 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 20°C may reduce battery life. Minimum distance measured is derated with temperatures <0°C.
Note 2: Based on a measurement to a flat liquid target of size 30cm^2.
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.