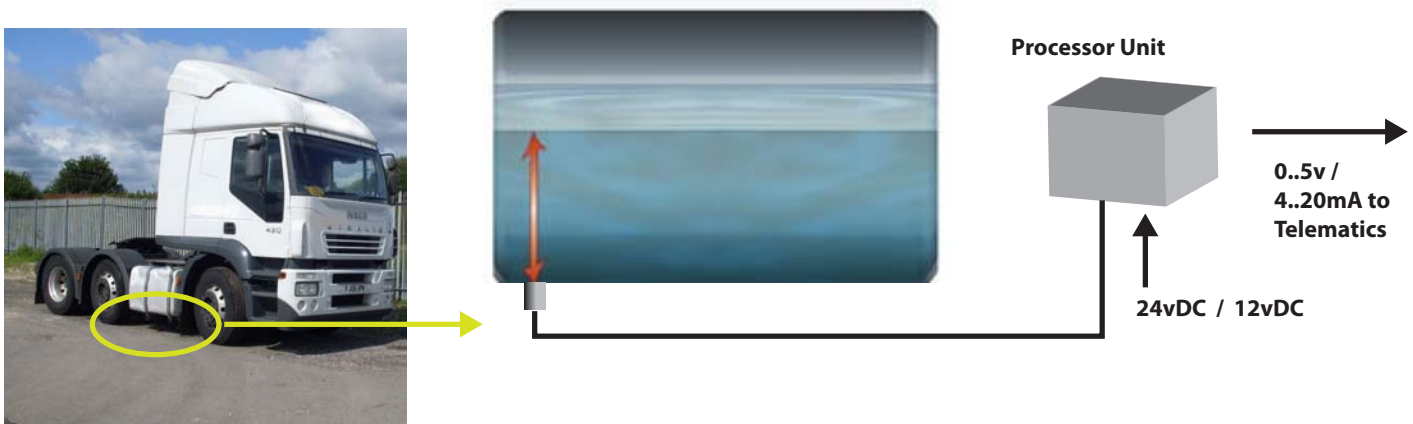


Tank-i

Non-invasive Fuel Tank Level Gauge

Data sheet : TANK-i/2013



Monitor, Manage and Protect your Fuel

Features

- Ultrasound technology proven for over twenty years
- Truly non-invasive sensing technique
- Sensors bonded to outside of tank shell
- Fits tanks of most shapes and sizes
- Output to Telematics system – various options
- ATEX approved for hazardous areas where required
- Modbus RS485/232 Communications

Benefits

- Low cost, reliable & accurate tank gauging
- Not affected by temperature fluctuations
- Easy installation - no tank break-in
- Simple retrofit to existing tanks
- No down-time during installation
- No moving parts – no maintenance
- When combined with a GRS telemetry tracking system, the fleet manager can get an accurate and up to date indication of the vehicles fuel consumption, and be warned of any excess consumption due to fuel theft.



Typical ATEX Ultrasonic Sensor.

General Description

VesselCheck is used by most of the leading beverage, pharmaceutical and chemical companies around the world for accurate, reliable, simple and safe tank contents gauging. This configuration has been developed for level measurement on vehicle's fuel tanks.

Principle of Operation

A small ultrasonic sensor is bonded to the outside base of the fuel tank. The system calculates the height of the liquid in the tank from the time taken for the signal to be transmitted and then received from the liquid surface. Signals from the transducer are fed into the processor and then output to a separate system. The package is supplied as a sensor / processor pair. The system can be configured to work in a low power mode which can be controlled from the telemetry system where required.

Current Applications include:

- Refrigerant receivers
- LPG tanks
- Distilled spirits vats
- Beer tanks
- Pure water tanks
- Liquid chlorine tanks
- Acids / solvents tanks

Specifications

Accuracy	+/- 5mm / +/- 0.2" (application dependent)
Repeatability	+/- 0.5mm / +/- 0.02"
Measuring Range	25mm to 1000mm / 1" to 3 feet
Temperature Range (sensors)	-25°C to +125°C / -40°F to +257°F
ATEX Approval (optional - sensors)	 II 2 G Ex mb IIC T5 GB (-20°C ≤ Ta ≤ 60°C)
Sensor Material	Tufnol / Ertacetal
Analogue Outputs (optional)	0..5v / 4..20mA
Power Supply	12 or 24Vdc
Protection Rating	IP67



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