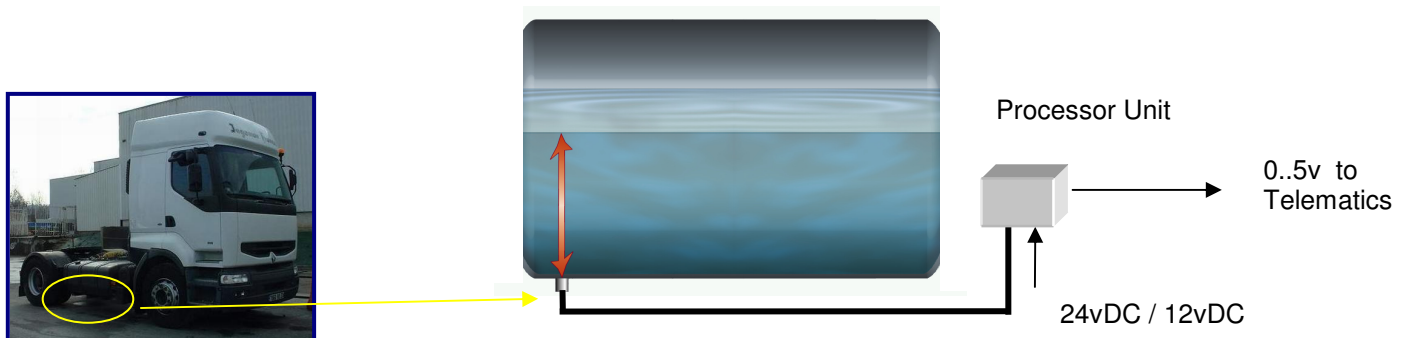


# Tank-i



## Non-invasive Fuel Tank Level Gauge



## 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**

### 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**

Canongate Technology Limited, Edinburgh, Scotland  
Tel: +44 (0)131 455 7211 • sales@canongatetechnology.co.uk  
[www.canongatetechnology.co.uk](http://www.canongatetechnology.co.uk)  
Leaflet Tank-i290307

## **Background**

Canongate Technology Ltd has been using ultrasound technology in a variety of applications for over twenty years. 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 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.

## **Technical Specification**

Accuracy	+/- 2mm / +/- 0.2" (application dependent)
Repeatability	+/- 0.5mm / +/- 0.02"
Measuring Range	25mm to 1000mm / 1" to 3 feet
Temperature Range (sensors)	-20°C to +125°C / - 40°F to 257°F
ATEX Approval (optional - sensors)	ATEX II 2G Eex m II T4 (max 85°C)
Sensor Material	Tufnol / Ertacetal
Analogue Outputs (optional)	0..5v / 1..5v / 0..2.5v / 0..10v
Power Supply	12vDC / 24vDC
Protection Rating	IP67

### **Current Applications include:**

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



### **Manufactured By:**

Canongate Technology Limited  
36 Inglis Green Road  
EDINBURGH  
United Kingdom  
EH14 2ER

### **Distributed By:**

**Canongate Technology Limited, Edinburgh, Scotland**  
Tel: +44 (0)131 455 7211 • [sales@canongatetechnology.co.uk](mailto:sales@canongatetechnology.co.uk)  
[www.canongatetechnology.co.uk](http://www.canongatetechnology.co.uk)  
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