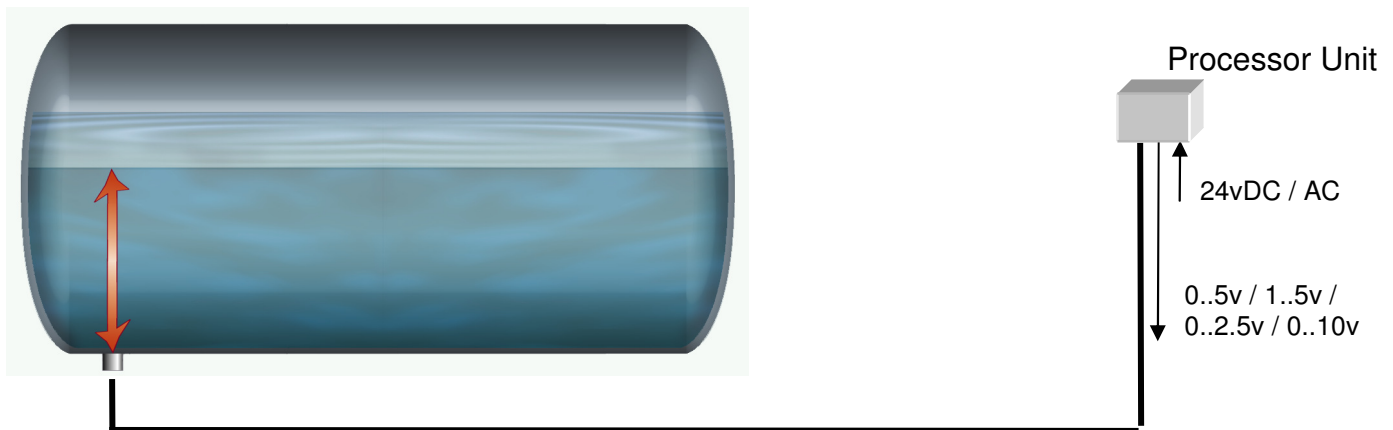


VesselCheck ST1



Non-invasive Tank Gauge



Features:

- **Ultrasound technology proven for over twenty years**
- **Truly non-invasive sensing technique**
- **Sensors bonded to outside of tank base**
- **Fits tanks of most shapes and sizes**
- **Output to telemetry system – various options**
- **ATEX approved for hazardous areas where required**

Benefits:

- **Low cost, reliable & accurate tank gauging**
- **Not affected by pressure & temperature fluctuations**
- **Easy installation - no tank break-in**
- **Simple retrofit to existing tanks**
- **No down-time during installation**
- **No moving parts – no maintenance**

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Leaflet ST1301104 fridge

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.

Principle of Operation

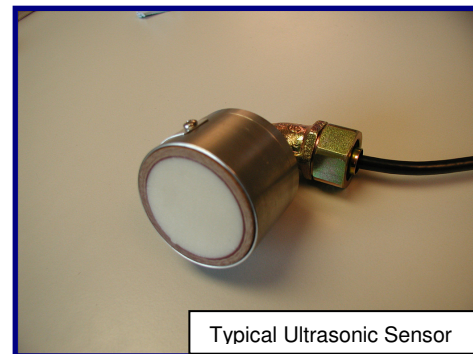
A small ultrasonic sensor is clamped or bonded to the outside base of the vessel. The system calculates the height of the liquid in the tank from the time taken for the signal to be transmitted and then received from the liquid surface. Signals from the transducer are fed into the processor and then output to a separate system. The package is supplied as a sensor / processor pair.

Technical Specification

Accuracy	+/- 5mm / +/- 0.2" or better
Repeatability	+/- 0.5mm / +/- 0.02"
Measuring Range	25mm to 3000mm / 1" to 10 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	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



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