

### Monitor, Manage and Protect your Fuel

J17D2E Throu-wall Ultrasonic Fuel Meter is used for fuel level measurement in vehicle fuel tanks in order to control fuel consumption. The measurements are realized by the ultrasonic sensor installed directly on the external bottom part of the fuel tank and Mainframe Unit. The Throu-wall Ultrasonic Fule Meter can measure levels of diesel and petrol or other liquid materials depending on software settings.

### Features

- Truly non-invasive sensing technique
- Sensors bonded to outside of tank shell
- Fits tanks of most shapes and sizes
- Output to GSM GPRS GPS system – various options

- RS485 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 GPS 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.

### Description

JUNTRY 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. Can be stored 1-12 months, level, temperature data.

### 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



Ultrasonic sensor



### Specifications

Max High 2m ( 5-20m Chosen )	Display resolution : 1mm
Wall thickness 1-8mm ( 5-20mm Chosen )	Short time repetitive : 1mm
DC supply 12-36V ( 110V、 220V Chosen )	Accuracy Measurement : 1‰
Host use temperature : -20 ~ +70	Senser use temperature: -40 ~ +100 ( 250 Choose )

### Place the ultrasonic Sensor

- For containers, can give the probe working surface coated with acoustic grease will directly by hand at the bottom of the container can be pressed.
- Senser the direction and the distance measured in the same line.
- The senser side and the liquid surface no obstacle.
- Away from the tank bottom liquid inlet, in order to avoid the effect of liquid turbulent flow on measurement.
- Is higher than that of the liquid inlet or outlet, in order to avoid the effect of long-term deposition tank bottom dirt on the measurement. If the condition is not satisfied, it should ensure that periodically remove dirt, at the bottom of the tank.

