JUNTRY ®

Throu-wall Ultrasonic liquid level Gauge J15D3C manual V1.0
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Monitor, Manage and Protect your Fuel Or Liquid Features

J15D3C Throu-wall Ultrasonic liquid level Gauge is used for fuel level or liquid measurement in vehicle fuel or liquid 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 liquid level Gauge 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 beendeveloped 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 fueltank. The system calculates the height of the liquid in the tank fromthe time taken for the signal to be transmitted and then received fromthe 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

JUNTRY ®
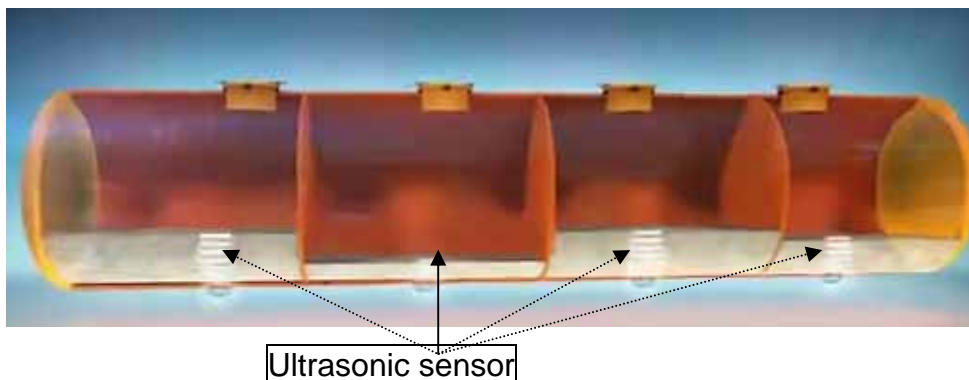
Specifications

Max High 3m 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:
LCD Display	-40 +100 250 Choose

Place the ultrasonic Senser

- 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.

LCD Display interface

1. battery power
2. Level low alarm
3. Senser signal
4. Liquid type
5. Date time

6. Temperature
7. Max High
8. Percentage
9. Liquid level