

## TankGuard RMS



Suitable for measuring both liquids and solid materials.

It is suitable for use with the storage of diesel fuel, kerosene, gas oil types A2, C1, C2 and D as defined by BS 2869.

It can be used with other liquids such as water and some chemicals but for suitability please check with Andel Ltd.

Worried about abnormal use of stored liquids or maybe even potential theft?

Andel's new TankGuard RMS makes the job simple for end users.

The system consists of:

- GSM/GPRS Modem & power supply
- Battery powered ultrasonic transmitter

The ultrasonic transmitter monitors the level of liquid inside the tank and relays this data via secure wireless connection to the receiving modem within a transmission range of 200m (line of sight). Each TankGuard RMS modem can synchronise with up to 6 transmitters for multi-tank sites. The data is then relayed via either analogue or GSM/GPRS back to Andel's RMS (remote monitoring system).

Customers will receive reports and alarm emails on:

- Automatically generated email alerts showing abnormal usage which could indicate theft or tank failure
- Current tank level
- DTE (Days To Empty) prediction
- Average usage history
- Automatically generated email alerts upon low level, high level

The TankGuard RMS is ideal for monitoring a range of liquids including heating oil, diesel, agricultural fuel oil, anti-freeze, biodiesel, bio heating oil, detergents, lubricants, waste oil and water.

The system can be retro-fitted to new and existing tanks (steel or plastic, single skinned or bunded) up to 3m in depth and in any configuration; Rectangular, square, cylindrical horizontal or vertical.

### Modem Specifications:

#### Dimensions:

107mm W x 25mm D x 120mm H excluding antennae

#### Housing:

ABS

#### Operating Temperature:

-10°C to 60°C/14°F to 140°F

### GSM Module:

2G Quad Band 850/900/1800/1900

### Power Supply:

9Volts 500mA

### Status indication:

Three LEDs; Green, Red, Yellow indicating sensor synchronisation, sensor activity, GSM activity, power

### System Specifications:

#### Tank Depth Measurement:

Minimum 0.5m, Maximum 3m

#### Max Communication Distance:

200m in normal "line of sight" conditions between modem and transmitter

#### Transmitter Power Supply:

3 volt lithium cell CR2430

#### FM Wireless Communications:

433MHz (EU/UK/NZ/AUS)

914.5MHz (USA)

Not suitable for pressurised containers. Use only on tanks vented to atmosphere.

Viewing sensor data requires an internet connection or mobile data plan which the client will need to provision.



HUDDERSFIELD - FM512048

E&OE Rev 1.0

