



User manual

DC Tankguard FMS

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2. PRESENTATION OF THE PARTS

Thank you for purchasing and using DC Tankguard FMS, it will help you keep thieves away and protect your fuel¹.

DC Tankguard FMS consists of the following parts:

1. Sensor units with intelligent ultrasonic technology
2. Cable for connecting the sensor with the FMS unit
3. Special mounting profile

The sensor unit consists of

- Sensor with two built-in ultrasonic sensors for intelligent detection.
- Built in LED light
- Built in acoustic alarm



3. THE SENSOR FUNCTION

Initial calibration:

The ultra-sonic sensors will detect all moving but also static objects. To sort out the static objects the sensor will initially scan and sort out all static objects. After the initial calibration is done the sensor will not accept any moving objects within the two zones (see below) To compensate for temperature differences multiple calibrations will be performed when the alarm initially is triggered.

Warning zone:

If an object is within the warning zone, 0,5 - 3 meter in radius, the sensor will give a clear visual and acoustic alarm during a few seconds. If then the object is removed outside the warning zone the sensor will go back to its normal scanning. If the object doesn't leave the warning zone but doesn't enter the alarm zone multiple warnings will be initiated until the object leaves the warning zone.

Alarm:

If an object, despite of the warning, stays within the alarm zone, 0,5 - 2 meter radius, this will result in an alarm. This will be forwarded to the connected FMS unit which will handle the alarm in a programmable way and it will alert the driver. If an alarm is triggered it could be turned off by turning on the ignition.

¹ There is survey showing that more than 7 million liter diesel is stolen each year only in Sweden. The actual number is probably higher and exceeds 10 Million Euro yearly!

4. OPERATING THE ALARM

When the alarm is in place and connected to the FMS it can be operated as follows:

Automatic:

- After switching off the ignition starts the alarm within 15 minutes. When the alarm is activated a red LED is flashing in the centre of the lamp.
- If the alarm would be triggered, it is restored simply by turning on the ignition.

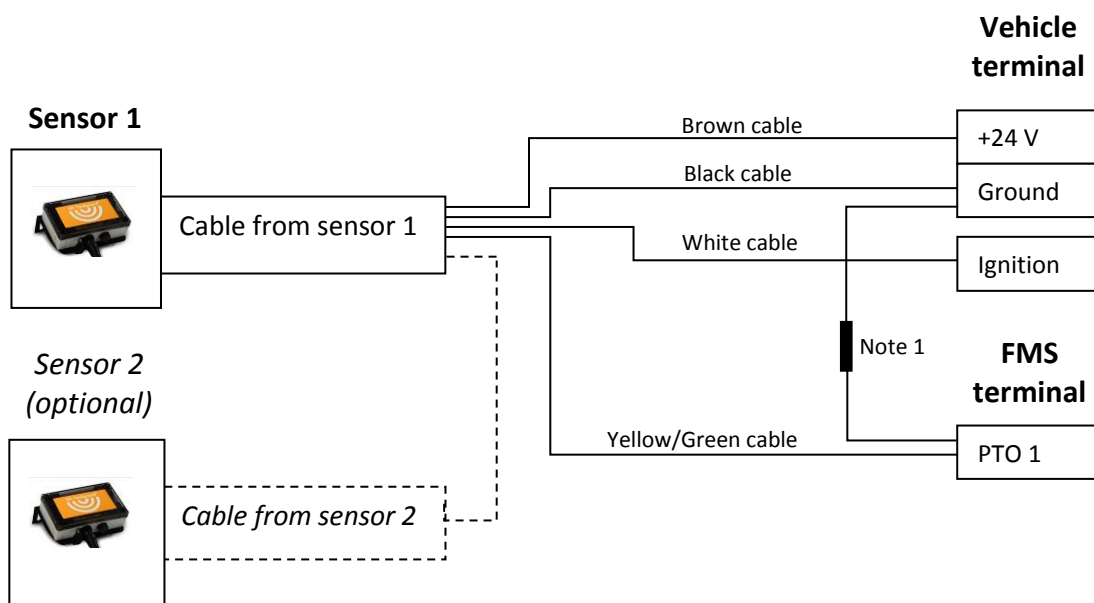
5. APPENDIX 1: MOUNTING INSTRUCTIONS

Sensor unit

The sensor should be mounted so it covers as much area as possible in front of the petrol tank. To make the mounting easier the special mounting profile should be used, see below “Mounting of the sensor”.



Electrical connection



Mounting of the sensor:

The sensor could be mounted either with the enclosed al mounting profile or with the shorter profile – also included.




When the profile is mounted be sure to attach it in a solid place close to the diesel tank. The profile could, if needed, be bend so the sensor comes in the right position.

The sensor is then mounted in the profile. Be careful so it's really locked in position. Attach the cable to the sensor.



6. CONTACT

Reseller	Manufacturer
	 DataChassi Datachassi AB Gjutarvägen 1 544 50 Hjo info@datachassi.com Service phone: +46 708-32 06 21