



Fuel Level Monitoring Technical Data **Installation & Operation Guide**

Contents:

1x FMS Box

1x Pressure Sensor (Transducer)

2x Screws

Please read carefully before commencing installation.

Important Warning Notes:

- 1.) The Fuel Level Monitoring device **MUST NOT** be used to monitor petrol or other highly flammable liquids.
- 2.) It must not be sited adjacent to a petrol dispenser or in any other hazardous zone.
- 3.) Installation of this equipment should be carried out by a qualified fuel installation engineer.
- 4.) The installation must conform to all relevant electrical and local authority regulations and standards.

Product Description:

The Fuel Level Monitoring System is a combined digital tank level indicator and bund and overfill alarm that is designed to provide visual and audible alarms whenever a predetermined level in a storage tank is reached. It also gives a contents readout in both litres and a percentage and can be pre-configured for Derv, Gas Oil and AdBlue with the option for self-calibration of other liquids.

Specification:

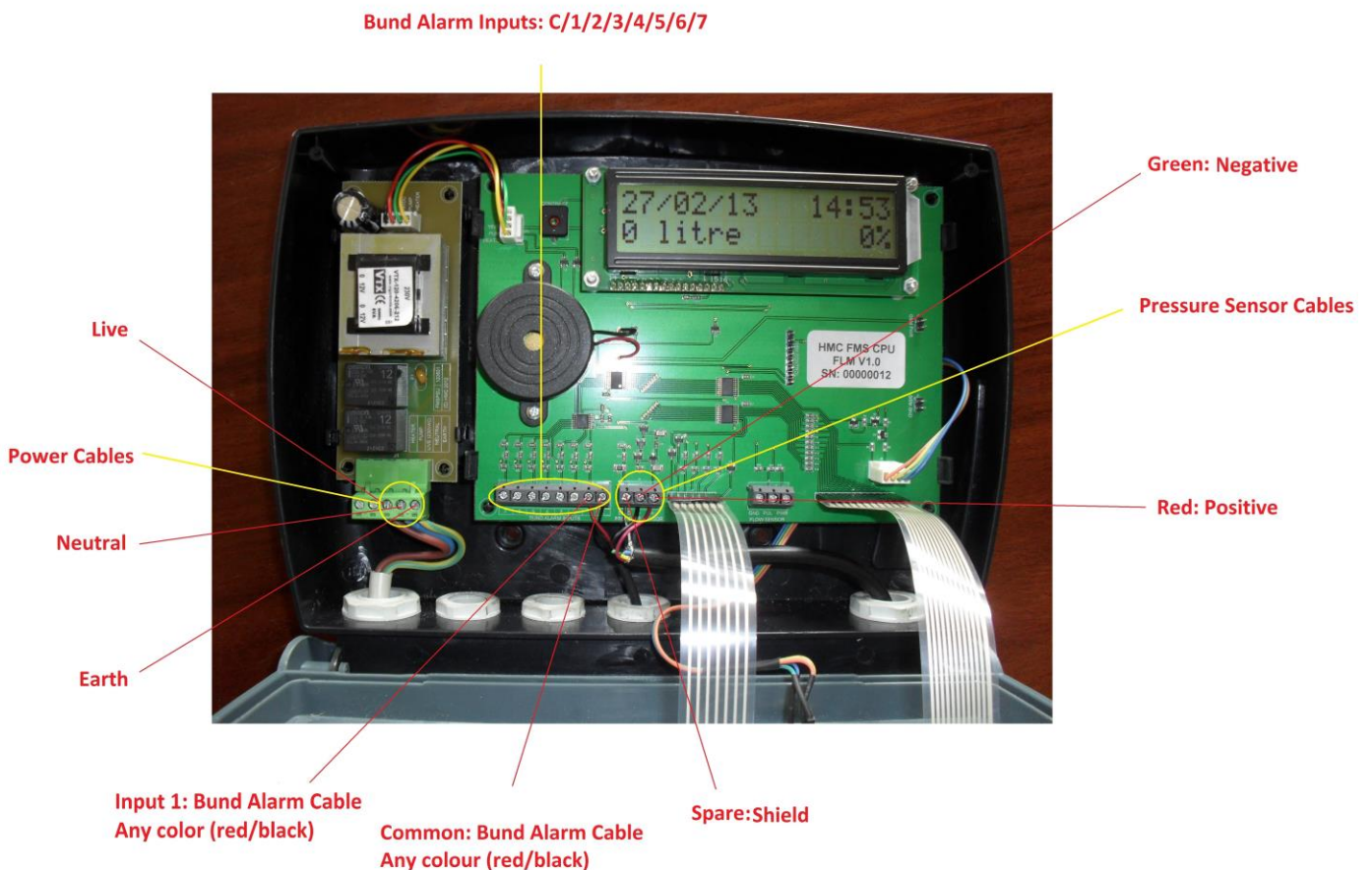
- Contents readout in litres & percentage
- Audio & Visual Alarms for all levels: Empty, Low, High, Full, Bund
- Pre-configured for Derv, Gas Oil and AdBlue; option for self-calibration of other liquids.
- Real-time clock.
- Pressure Sensor with 8m cable

Technical Info:

- 2 x 16 large character backlit display.
- Audio output 8DoB / metre
- 12 button custom keypad.
- 100-240 Vac operating range

Installation

- 1.) Lower Pressure sensor into tank from top and run cable back to FMS Box.
- 2.) Run cable through gland and refer to 'Pressure Sensor Cables' on diagram to wire correctly.
- 3.) If Bund or Overfill sensors are to be connected please refer to 'Bund & Overfill Alarm Inputs' on Diagram to wire correctly. First sensor to be wired into common (C) and second wire into input 1. Subsequent sensors to fill terminals 2-7.
- 4.) Wire Power Cables (L/N/E) to terminal box as shown on diagram under 'Power Cables' – Screen should then show as above. (or similar)
- 5.) When all wires are connected, close the FMS box fascia and fasten tightly with the screws provided.



MOUNTING

- 6.) The FMS box has x6 fastening points on the rear of the unit.
- 7.) Position the FMS box in the desired location, attach to desired backing using x4 countersunk screws and the 4x screw mounts located on the back.
- 8.) To secure the box firmly drill through the two drill points located below the x4 screw mounts, fasten with x2 screws and x2 nuts.

POWER SUPPLY

230V single phase.

Configuration (Only applicable to Installer):

In order for the gauge to show the correct contents reading:

- Cycle through menu and set the liquid (select our presets or input Specific Gravity of liquid on next option)
- Enter dimensions of tank. (Refer to tank manufacturer for exact dimensions).
- The capacity is automatically entered in the next option when dimensions are set.
- Set percentages of Empty/Low/High/Full to your requirements.
- Set Zero offset to 2820 for diesel / kerosene or 2900 for AdBlue

Operation:

PIN CODE: **123456**

Control Function

Enter Press Enter and follow the on screen instructions to enter menu. Continue to press enter to cycle through menu (here you will see the sections where you can input the desired information).

Test (0) To select a category from the menu; once selected input information using the numbers/letters on the keypad. Once completed press enter to make changes and you will return back to menu.

Cancel/Mute Cancel any incorrect selection or make a backspace - delete incorrect letter/number.

This button is also used to mute box should the bund/overflow alarm sound. Press once to mute, box will remain muted until another alarm is set off.

Space / 1 Space button /number 1

Buttons 2-9 Relevant numbers / letters as shown.

Test / 0 This will test the audible alarm. To mute, press Cancel/Mute.

Bund Alarm LED - Lights up when bund alarm sensor is triggered.
Audio - Will sound when triggered.

Audible Alarm

Alarm Sound What does this mean?

Beeps Once Low Level is reached

Beeps Twice High Level is reached

Beeps Three Times Full Level is reached

Dimensions:

Height: 215mm
Width: 275mm
Depth: 70mm

