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L100 Tank Level Indicator

Installation Instructions

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DESCRIPTION

The L100 is a Fuel level Indicator for a Static Fuel Tank. It consists of a pressure sensor which is placed in the fuel tank and rests on the bottom of the tank. The pressure sensor is connected to the level indication display box by a length of polyurethane conduit. The display is mains powered and indicates the level of fuel remaining in the tank. The level is indicated, in real time, by an LED display which expresses the level of fuel as a percentage of a full tank. The unit is supplied with a length of mains cable such that it can be wired into a junction box. The box is approximately 120mm X 120mm X 60mm and the whole system weighs approximately 530g.

SPECIFICATION

Dimensions:

Tank depth: Min 750mm, Max 4000mm (Diesel fuel)

Electrical:

Supply voltage: 240VAC nominal
LED: Hyper bright red:
Alarm rating: >90Db @ 0.3M
Display: 3 figures LED

Construction:

Enclosure: ABS
Sensor tube: Polyurethane flexible tube
Sensor housing: 316 stainless steel Pressure (Hydrostatic): 5 psi
Seals: Viton

Accuracy:

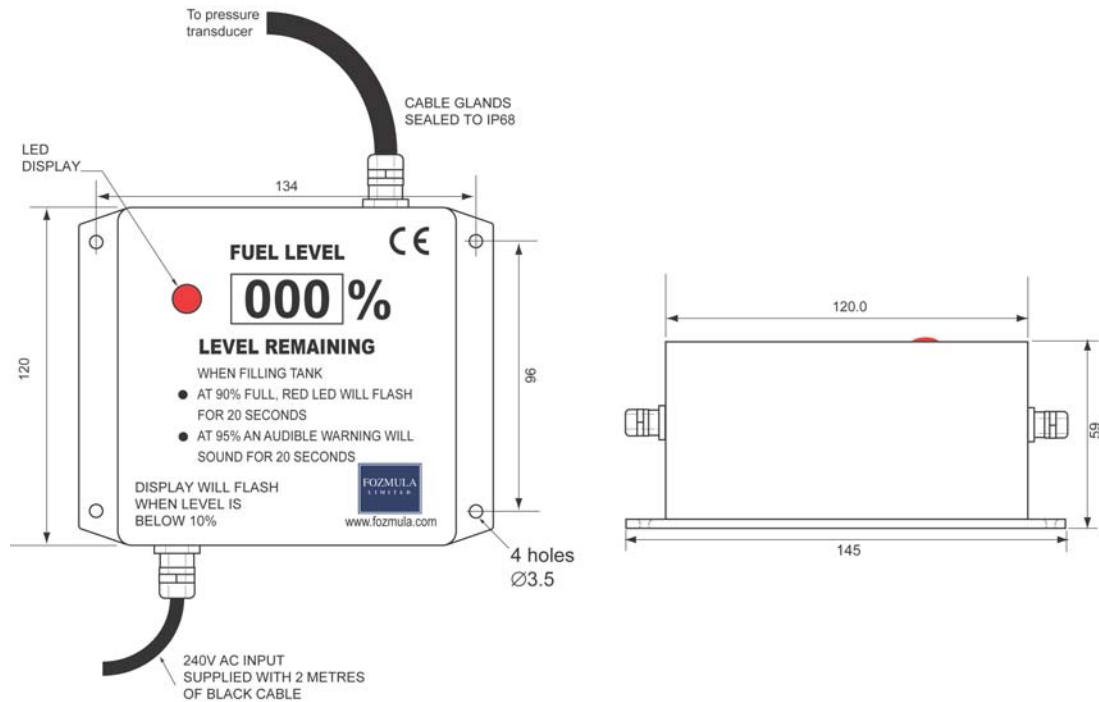
±3% of total fluid depth

Fluid Types:

Any Fluids compatible with Stainless Steel, PA66, Polyurethane & Viton

Environment:

Operating: -20°C to +80°C
Storage: -55°C to +105°C
Sealing: IP57



Warnings:

- **Do not attempt to poke or push the pressure sensing diaphragm which is behind the wire mesh in the steel pressure transducer.**
- **Do not remove the back cover of the display box (warranty is voided if the back cover is removed)**

INSTALLATION

1. Check that the L100 unit you have is suitable for the depth of tank to which it is being fitted. Ensure there is sufficient length of tube on the transducer for the transducer to be resting on the bottom of the tank when the display module is mounted in position.
2. Do not immerse the pressure sensor in the tank. Decide where to mount the display. Mark the positions of the required fixing holes by holding the display module up to the mounting surface. Once marked, drill 4 fixing holes and secure the display module with cap head screws.
3. Ensuring the electricity supply is isolated, connect the power cable from the display to the mains junction box # Brown ~ Live, Blue ~ Neutral, Yellow/green ~ earth.
4. With power supplied to the display module: Check that the display is illuminated and reading 0% (tolerance of (+ 2%). The display will flash since the level is less than 10%
5. Lower the pressure transducer into the tank and observe the display. Check that the value increases as the pressure sensor is lowered into the fluid. NB, there is a delay on the reading if the pressure sensor is lowered into the fluid quickly. If possible check that the display reads 100% when the tank is full.
6. Installation of the L100 Tank Level Indicator is complete.