

HAZARDOUS ZONE INFORMATION – SAFE TANK DISTANCES

AS AT JANUARY 2018

HAZARD ZONE INFORMATION

Levno for Fuel incorporates an intrinsically safe, certified Bluetooth sensor that communicates to a powered transceiver installed remote of the sensor.

The Bluetooth sensor is certified to operate inside the Hazardous Atmospheric Zone, the transceiver is required to operate outside the Hazardous Atmospheric Zone. The remote installation of the transceiver is to comply with the relevant paragraphs of IEAC 60079-0, Ed. 6.0 (2011) and IEC 60079-11, Ed. 6.0 (2011).

The Hazardous Atmosphere Zones for Diesel and Petrol are summarised below and are reproduced from AS/NZS 60079.10.1:2009.

DIESEL HAZARD ZONES

There is no Hazardous Atmosphere Zone for diesel unless it is low flash point diesel. Diesel does not emit vapour unless heated to a temperature higher than the flash point of 61 degrees Celsius.

PETROL HAZARD ZONES

The safe tank distance is assessed at the time of installation, along with the identification and removal of only hazards in zones 1 and 2. The customer is required to maintain adequate separation distances between the tank and any hazard which includes, but is not limited to, flammable liquids and other such dangerous or hazardous goods which cannot be stored within the Hazard zones, to enquire the safe operation of Levno's equipment.

These are defined as follows:

Vertical and horizontal vented tanks:

Zone 0

Inside Tank

Zone 1

Outside the tank, within a space from ground level to 3 metres vertically above the tank shell and extending laterally to 3 metres from the shell; then reducing to 4 metres above ground level, and extending laterally from the shell to the bund wall.

Zone 2

Outside that described in Zone 1 above and extending vertically from ground level to the height of the bund or 1 metre, whichever is greater, and laterally to a distance from the tank shell according to the table below:

Table 1: Distance from tank determined by volume of Petrol								
Capacity of Tank (litres)	1,000	2,000	4,000	7,000	10,000	25,000	50,000	200,000
Lateral distance (metres)	3	4	5	6	7	8	9	12