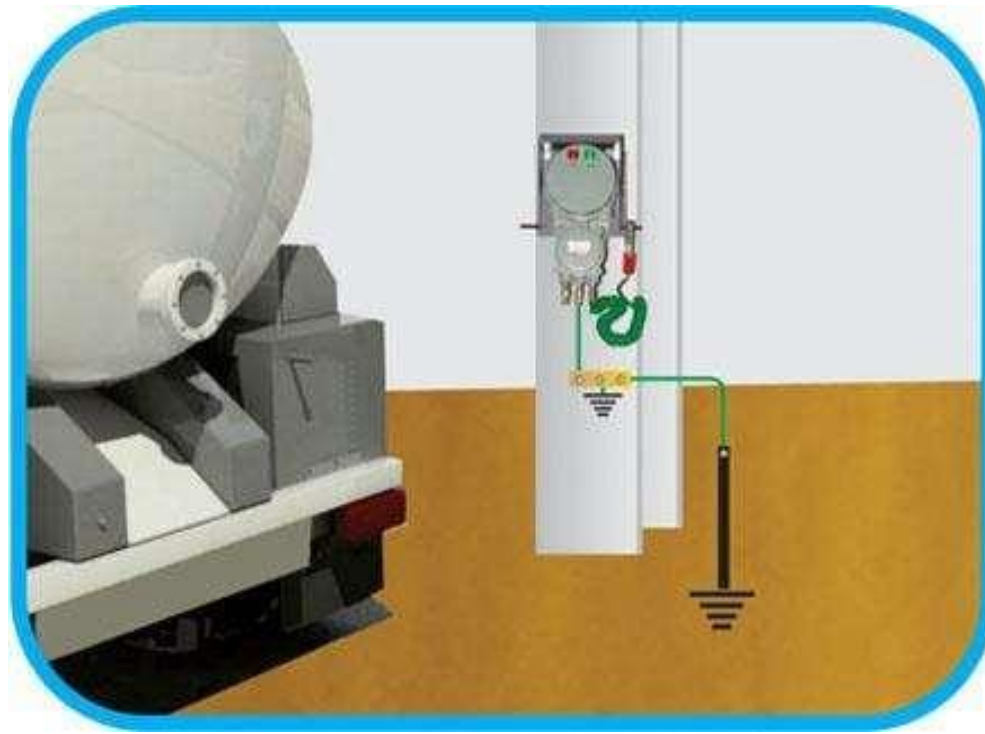


EARTHING CONFIRMATION SYSTEM ECR PLUS



MODEL: ECR-PLUS

The ECR Plus continuously monitors the resistance between the tanker and the earthing point connection. The system is interlocked with the transfer system to shut-down the product transfer operation if the resistance exceeds 8 ohms. It also recognizes when it is not connected to the chassis/ metal tank of the tanker. This ensures that the connection to the mudguard or the wheel nut by the operator would not allow the transfer operation and prevents the associated risk of accumulation of static charge on the tanker.

Features:

- Housed in flame proof/ weather proof enclosure to suit hazardous area application.
- Intrinsically safe relay operation.
- One or two stainless steel earthing clamp with/ without tungsten carbide teeth for clamping to the tanker.
- Two changeover potential free relay output contacts.

Advantages:

- Easy installation: Supplied as a complete assembled unit and can be easily installed on wall or steel frame structure.
- Ease of operation. When the system is made ready by clamping to the tanker and fixing the earth connection; red indication lamp glows if earth connection is open or earth resistance is more than 8 ohms or tanker is not identified and green lamp glows when the prerequisites are fulfilled for healthy condition allowing the pump operation for loading/ unloading of fluids.
- Continuous monitoring of loop earth resistance and tanker verification ensures that human errors during the earth connection and tanker connection are prevented.

SPECIFICATION

Rated Power supply	230VAC or 110VAC, – 10%/ +15%, 45-65 Hz (optional 24V AC/DC)
Internal Protection	High speed glass fuses for short circuit protection
Inputs	1) True or verified earthing at loading/ unloading area 2) Clamp connection from Tanker
Setting Range	Earth Loop resistance 0 to 10 Ohms adjustable through external display console at factory, on demand.
Permissible circuit value ignition protection class for enclosure	Ex IIC 2 GD d e T6
Output relay details	Two changes over contacts rating of 250V, 5 A (resistive load)
Cable entry points	Three/ four at the bottom of enclosure
Cable type	Two single core or two core single cable of 5m (Option in straight and spiral)
Clamp design	SS 304 crocodile type / tungsten carbide (optional)
Weight	6.5kg (without clamp)

CONNECTION DIAGRAM

