


EGT 3.1 ELECTRONISEI EQUIPMENT FOR GROUING



Description

EGT 3.1 consists of an electrical box and a cable with clamp. The box is designed to be installed in charging stations. E_j: outdoor environments and potentially explosive atmospheres.

The electronic devices are installed in a box with EXD protection while the clamp and the grounding cable are intrinsically safe. The safety of the device for use in potentially explosive atmospheres, complies with ATEX guidelines. 



Features

- Continuous connection to ground
- Principle of non-conductive measurement
- Relay output with double contact
- Light alerts system
- Exd protection
- Robust construction
- Resistant against misuse
- Easy installation
- Does not need assistance
- Cable + clamp included

Typical applications



EGT 3.1 is designed for the discharge of electrostatic charge from tankers or train cars during loading / unloading of flammable liquid. The discharge is done through the process of grounding. In a large number of countries it is regulated by law.



Tankers can be charged electrostatically by their conduction, especially in dry environments or with high concentration of dust in suspension. Any manipulation of the board can be done after the discharge of the same, which reduces the risk of producing a spark with the consequent explosion.



A false ground would produce an alarm with the consequent stop of the load.

EGT functions 3.1

A. Ground connection. The clamps are connected via cable and electronics to ground, and EGT ensures control over the electrostatic charge.

B. Signaling. EGT 3.1 indicates the status of the ground connection through lights on the front panel and through relay contacts. The contacts supposedly connected to the control / electrical system will block the load in case the grounding is not done correctly. The second output can be used for the use of lights and / or sirens. EGT 3.1 uses a non-conductive measuring principle for verification of grounding status, so it is very effective against misuse, as shown below in the second diagram.

If the parts are connected directly to ground, EGT 3.1 does not evaluate the action as a correct ground connection. In this way, operators and drivers are forced to make the connection to the ground of each tank with the attention it needs and ensure maximum safety.