Eltex-Elektrostatik-Gesellschaft mbH Blauenstraße 67-69 | 79576 Weil am Rhein | Germany Phone +49 7621 7905-422 | info@eltex.de

# Electrostatic grounding – safety for production systems and employees

Did you know that uncontrolled electric discharges are one of the most frequent causes of explosions and fires - and thus the third largest hazard source for your employees?

Protect people and production systems with electrostatic grounding systems from Eltex. Eltex grounding systems provide greater safety when handling slightly flammable and explosive substances. In real-life applications, we often see inadequate grounding. Sometimes, the consequences of this can be fatal. We would be glad to provide advice or carry out an on-site assessment of your production system.

### Some Eltex grounding products are available in our online shop:

> https://shop.eltex.de/en



Smart electrostatic grounding helps you avoid risks. We explain how in a concise explanatory video:



> www.eltex-grounding.de





Overview of grounding systems

TERRASMART

24 - 48 V DC +/- 20%

via CANopen® / fieldbus

in connection with ECC

or 100 - 240 V AC

**Electrostatic grounding provides greater** 

> Chemicals/Pharmaceuticals/Life Science

> Any operations that handle explosive

materials (liquid, solid or gaseous)

**Grounding with electrostatic systems** 

> Loading and unloading tanker trucks

> Explosion protection in production

> Filling and emptying containers

Remote monitoring / networking

is particularly beneficial in the following

safety in these industries:

> Filling plants

> Paint shops

applications:

> Securing big bags

> Process assurance

Supply voltage

> Printing plants

Active Grounding Solution

TERRALIGHT

batteries



GROUNDING

electrostatic charges.





Using their intrinsically safe electrical circuit, Eltex grounding systems monitor and control the entire ground connection between an object (tanker vehicle, container, etc.) connected to the ground contactor and the equipotential bonding conductor. If a flawless, safe and reliable ground connection is detected, depending on the ground monitoring device, an optical signal can be output or the process can

be enabled. This ensures safe and reliable dissipation of any

The Eltex ground contactors, rewinding cable reels and grounding cables ensure a stable and fault-free connection between the object to be grounded and the active ground monitoring device.

**Passive Grounding** 

coupled with the multifunctional Eltex Connected Control (ECC) unit. This enables intelligent networking and convenient monitoring of workflows. A quick glance at the graphic interface of the ECC shows which grounding units are active or inactive. And, above all, tells you whether the systems are working without faults. This enables you to work safely, reliably and without risks.

**TERRA**SMART for grounding systems is the smart way to get

started with Industry 4.0 in this area. The system can be

In manual processes that are not integrated into the process monitoring, the battery-operated Eltex **TERRA**LIGHT ground monitoring system provides safety and reliability. It checks whether the ground contactor is conductively connected with the object to be grounded, whether the object has a sufficient conductivity and whether it is itself connected to the equipotential bonding conductor. This makes it possible to prevent dangerous electrostatic charges reliably without

major installation effort.

> Test Device



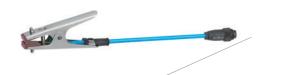
**Section** Grounding clamps



Cable reels/grounding cables







TERRACLIP 70AK



TERRACORD KG/BN

## > Passive Grounding

Ground monitoring devices

With the **TERRA**TEST TERRA-TU, the capacitive/resistive switching thresholds of all Eltex grounding devices can be checked quickly and easily in conjunction with the Eltex grounding clamps used.



Available in different versions, the passive Eltex ground clamps

Simple electrostatic grounding without monitoring

are used to dissipate electrostatic charges without monitoring. The Eltex cable reels are the ideal accessories for the passive ground clamps and ensure safe storage of the ground cable and clamp. When using the passive ground clamps, make sure that the grounding point selected for connection complies with the relevant standards and directives with regard to the grounding resistance.







TERRACORD KG/GS











