



Smart grounding: avoid risks with electrostatic grounding

At ACHEMA 2024, world market leader Eltex presents intelligent electrostatic grounding systems for maximum safety in hazardous areas.

Weil am Rhein, May 2024: *For more than 70 years, everything at Electrostatic Innovations from Eltex has revolved around an exciting topic: using electrostatics wherever it is useful – and eliminating it where it is disruptive or even harmful. This core competence requires decades of expertise and experience with highly complex technological applications.*

Continuous measurement of the ground connection using Smart Grounding

According to long-term studies in the process industry, uncontrolled electrostatic charges and discharges are among the most frequent triggers of explosions, deflagrations, fires and secondary accidents due to shock effects. Particularly high-risk effects occur wherever flammable or explosive substances – including many liquids, gases or powdery media – are produced, processed or transported.

The intelligent smart grounding solutions from Eltex ensure controlled electrostatic grounding in these potentially explosive areas and therefore reliable protection for people, production facilities and transportation machinery. The functional principle: Eltex grounding systems monitor and control the complete ground connection between an object (tanker, container, etc.) connected to the grounding contactor and the equipotential bonding conductor with their intrinsically safe circuit by means of continuous measurement. Depending on the ground monitoring device, an optical signal is only emitted or the process is enabled once a faultless, safe ground connection has been detected. Any electrostatic charges that arise are discharged reliably and safely.



**Experience Eltex Electrostatic Innovations at ACHEMA 2024
in Hall 11.0, Stand A68.**



Maximum safety for people and technology: Eltex highlights at ACHEMA 2024

The intelligent grounding contactors, cable rewinders and grounding cables from Eltex guarantee a stable and fault-free connection between the object to be grounded and the active ground monitoring device at all times. Visitors to ACHEMA 2024 can already look forward to the following product highlights:

- **Simple, fast and mains-independent: TERRALIGHT**
The battery-operated, mobile TERRALIGHT ground monitoring system ensures safety for manual processes and processes that are not integrated into process monitoring by monitoring conductive objects independently of the mains – without major installation work.
- **Intelligent earthing with a system: TERRASMART**
ACHEMA visitors will get an exclusive look at the brand new TERRASMART ground monitoring system, while everyone else will have to wait until the official market launch in a few months' time: TERRASMART guarantees permanently monitored, safe grounding – depending on the variant, with extended functions such as customizable switching thresholds, optional object detection or recording of operating parameters. The highlight: several TERRASMART grounding devices can be intelligently networked with the optional ECC control unit.
- **Simple operation, clear functions: Eltex Connected Control (ECC)**
The innovative, multifunctional Eltex Connected Control (ECC) control unit is used for convenient operation, visualization, monitoring and central control of supported end devices and can be combined with all Eltex product groups.
- **Functional accessories: TERRACLAMP, TERRACLIP, TERRACORD and TERRATEST**
The TERRACLAMP and TERRACLIP active grounding clamps ensure a secure connection for potential equalization at all times with a permanently high closing force. The TERRACORD impact-resistant cable return reels protect the grounding cable from damage and keep it safe. The TERRATEST test device can be used to quickly and easily check the capacitive or resistive switching thresholds of all Eltex grounding devices in conjunction with the respective Eltex grounding clamps used.



Active grounding systems Ground monitoring devices



TERRALIGHT



TERRASMART



ECC ELTEX CONNECTED CONTROL



Test Device



TERRATEST TERRA-TU



Active Grounding Grounding clamps, Cable reels, grounding cables

TERRACLAMP TERRA-C



TERRACLIP 70AK



TERRACLIP 70HK



TERRACORD 601KR/AW



TERRACORD 601KR/DW



TERRACORD KG/BS



TERRACORD KG/BN



NEWS



Passive Grounding Grounding clamps, Cable reels, grounding cables

TERRACLAMP TERRA-C/P



TERRACLIP 70PK



TERRACLIP 700K



TERRACORD 601KR/EW



TERRACORD KG/GS



TERRACORD KG/GN



NEWS



Eltex Elektrostatik GmbH in Weil am Rhein, founded in 1953, is the world's leading manufacturer of electrostatic systems. For more than 70 years, Eltex has been developing intelligent solutions for the beneficial use of electrostatics and the elimination of their undesirable side effects by means of targeted charging and discharging using electrostatic systems. Eltex's innovative products have established themselves as a fixture in numerous industries and help to optimize industrial processes, increase productivity and efficiency and minimize hazards and risks. With an international sales network and more than 55 representatives, Eltex has a global presence and is a leader in electrostatic control.

Do you have any questions? Talk to us!

If you have any questions, please do not hesitate to contact Walter Schwarzwälder, Head of Sales and Marketing Earthing Systems, at walter.schwarzwaelder@eltex.de.

Further information can also be found at www.eltex.de.



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