



Intelligent Static Grounding Systems

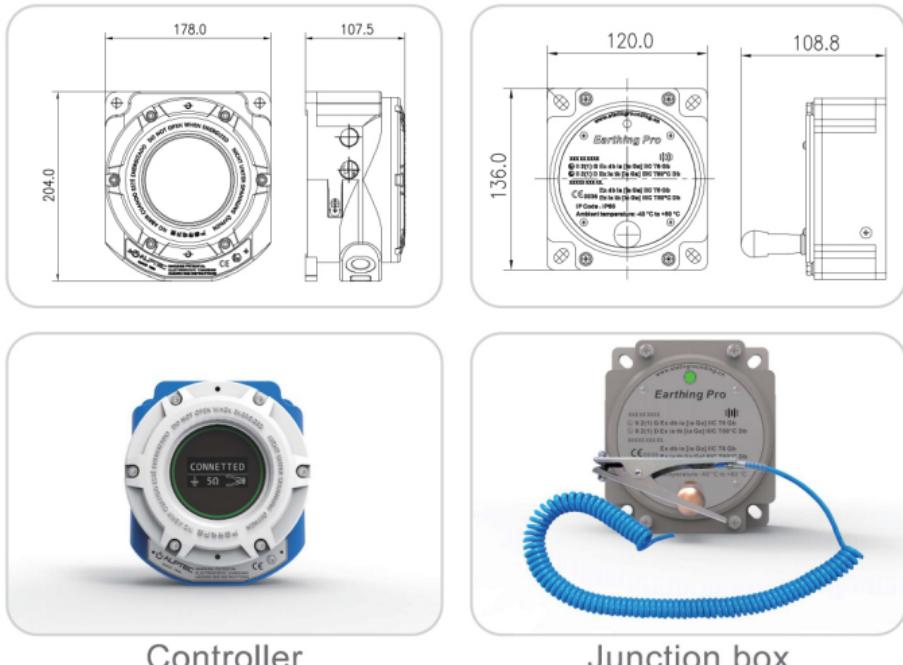
***Your Trusted Selection in Static Control
Safety. Reliability. Precision.***



Alptec Automation

The Earthing Pro series Static Grounding Controllers are engineered by Alptec Automation for static safety in hazardous gas and dust environments. This standalone solution provides comprehensive static dissipation, continuous grounding verification, and critical safety interlocking to secure your operations.

It consists of two key components



Specifications

| | |
|----------------------|--|
| Monitoring Set Point | 10 ohms |
| Input Power | 85~250VAC or 24~48VDC |
| Input Current | 90mA |
| Ambient Temperature | -40°C to + 60°C |
| Output Signal | On-off signal, 10A 250VAC/5A 30VDC |
| Certification | II 2(1) G Ex db ia [ia Ga] IIC T6 Gb II 2(1) D Ex ia tb [ia Ga] IIIC T80°C Db |

Features



Real-time Ω & SOP guidance

01



Wide-range AC/DC input

02



Built-in buzzer

03



Expandable event logging

04

Earthing Pro GE

01

Classic Static Grounding Controller

The classic Earthing Pro GE Static Grounding Controller ensures safety by continuously verifying that the dual-path resistance Clamp-to-object and object-to-earth remains below 10Ω . This robust controller is ideally suited for grounding applications involving drums and railcars.



Loading/Unloading of Railcar



Loading/Unloading of Drum

Earthing Pro TK

02

Static Grounding Controller with Tank Recognition

The Earthing Pro TK Static Grounding Controller with road tanker recognition ensures ultimate safety during tank truck loading/unloading. It performs three critical checks simultaneously:

- **Secure Earth Connection**
- **Correct Clamp Attachment**
- **Loop Resistance $<10\Omega$**



Earthing Pro FIBC

03

Static Grounding Controller for FIBC

The Earthing Pro FIBC Static Grounding System is engineered specifically for the safe handling of Flexible Intermediate Bulk Containers (FIBCs). It provides continuous monitoring of the complete grounding circuit—from the detector clamp, through the bag, to the ground clamp.

This system is specifically designed for operations involving bag. To ensure true conductivity and detection, the system uses two dedicated bag clamps.



Earthing Pro MV

04

Portable Static Grounding Controller

The Earthing Pro MV ensures grounding safety by determining whether the grounding is truly established and by real-time loop resistance detection, specifically designed for vehicle-mounted applications.

Determining True Grounding

Real-Time Loop Resistance Detection



Earthing Pro DU

05

Dual-Channel Grounding Controller

Designed for scenarios requiring simultaneous static dissipation and grounding for two separate objects. The Earthing Pro DU incorporates two fully independent detection channels within a single monitor. Both channels operate concurrently, each establishing its own grounding loop and continuously monitoring resistance to ensure it remains below 10Ω .

Each channel provides independent, clear "CONNECTED/DISCONNECTED" status indications and safety interlock signals. This makes it the ideal solution for safely grounding two drums or two tank trucks at the same time.



Earthing Pro MUL

06

Centralized Multi-Channel Grounding Controller

The Earthing Pro MUL system elevates safety and efficiency for complex operations, capable of simultaneously monitoring up to 16 independent grounding points. Each channel operates autonomously: a "CONNECTED" status and individual interlock are activated only when the resistance to the grounded object is below 10Ω .

Otherwise, a "DISCONNECTED" status and interlock are immediately enforced. All 16 channel statuses and alarm messages are centralized for viewing in a control room or safe area via an LCD interface. This provides comprehensive oversight for multi-drum or multi-railcar scenarios, allowing personnel to monitor all grounding statuses safely and conveniently from a single, secure location.



Overfill Protection & Earthing System

Model: SLA-S-Y  

For Bottom Loading



CE 2460

⊗ II 2(1) G Ex db ia [ia Ga] IIB T5 Gb

5-pin and 10-pin Options Available

For Static Discharge



CE 2460

⊗ II 2(1) G Ex db ia [ia Ga] IIB T5 Gb

Overfill Protection & Earthing System

Model: Alptec FlexPerm



- Dual-standard: EN 13922&API RP 1004
- Auto 5W/2W (optic & thermistor)
- On-screen diagnostics & event log
- Remote setup & bypass
- RS-485 Modbus & TCP/IP for TAS

Our Complete Solutions



Batch Controller
ALTRON-3000

As the control core in the quantitative loading system, the Batch Controller is matched with the Mass Flow Meter, Overfill Protection & Earthing System, Control Valve, Loading & Unloading Pump, Host Computer, etc. At the loading and unloading site. When the loading or unloading reaches the set value, it automatically stop loading.



Optic Sensor
UZK-DM

Overfill Sensors are designed to prevent overfill of liquid petroleum products.

- Meets AP Recommended Practice.
- Interchangeable with optical sensors that meet API standards.
- Easy to adjust.
- Optical sensor.



Socket & Grounding Bolt
S03

- Stainless-steel contact pins.
- Meets API Recommended Practice.
- Durable housing.

Alptec was established in 1996, focusing on the research, design, manufacture and supply of static grounding and overfill protection systems, providing integrated solutions for the safe transport, storage and transfer of hazardous chemicals in the petrochemical and related industries.



As a supplier trusted by mainstream energy companies, its products have been exported since 2006 to more than 60 countries and regions including Canada, Germany, Australia, Singapore, Japan, Brazil and Nigeria, and have been recognized by well-known companies such as Total, BP, Shell, Mobil, Vopak, Jotun and BASF.

Alptec combines precision manufacturing, rigorous testing and professional customer support to provide reliable, compliant solutions that enhance safety and uptime.

Learn more: www.alptecautomation.com



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