

Earth-Rite®

Static Ground Monitoring & Interlock Systems

Wherever there is a real danger of conductive plant equipment and materials accumulating static charge within flammable and combustible atmospheres

Newson Gale's range of **Earth-Rite Static Ground Monitoring & Interlock Systems** provide added operational safety for critical hazardous area processing and handling operations.



- **Road Tanker Truck and Railcar** flammable product transfer.
- Filling, mixing and blending of flammable / combustible materials in **Drums, IBC's Totes, Portable Containers and Mobile Tanks.**
- **Multiple Grounding** of potentially isolated conductive components of manufacturing and processing systems.
- **Filling or discharging Type C FIBC's** and static dissipative plastic drums in flammable or combustible atmospheres.
- Monitoring fixed **Tanks and Vessels** in storage and distribution facilities.



Earth-Rite Static Grounding Systems enable organisations to clearly demonstrate international "Best Practice", compliance with **Cenelec CLC/TR: 50404; NFPA77; API2003**, and other world-wide technical standards and codes of practice governing the control of static electricity in hazardous areas.

Earth-Rite RTR

The **Earth-Rite RTR** is the most advanced system for protecting personnel and plant assets from static hazards during road tanker loading and offloading operations. The system utilises innovative **Tri-Mode Technology** to ensure ① positive connection to a road tanker, ② connection to a verifiable static dissipative ground and ③ a continuously monitored tanker-ground connection of less than 10 ohms. When these parameters are confirmed, the **RTR** permits the transfer of product and any static generated on the road tanker by the transfer process is immediately transferred to ground. The **RTR** operates with a Universal Grounding Clamp and it does not require any special equipment to be installed on the Road Tanker Trucks, it may be used with all common types of Bulk Tankers without special modifications.

- Explosion Proof Control Enclosure incorporating Intrinsically Safe Static Ground Monitoring Interface Module.
- Ground Connection Junction Box with Clamp Stowage Point and Quick Release Connector.
- Heavy Duty Stainless Steel Universal Grounding Clamp with Hytrel™ Extendable Cable and Quick Connectors.



Options
RTRT System Test Device
Mode Selector Keyswitch
Self-Retracting Cable Reel
Explosion Proof Strobe Light
IEC/Cenelec (European) and NEC/CEC (North American) versions available

Certification
Ingress Protection IP 66 / Nema 4X, 7 & 9
Power Supply 110/120V or 220/240V AC, 50-60 Hz 12V or 24V DC

Earth-Rite PLUS

The **Earth-Rite PLUS** is an extremely versatile system that may be used to monitor static ground conditions on a wide range of plant equipment, including Mobile Tanks, Railcars, IBC's, Drums and Containers. The **PLUS** operates a single mode monitoring system that continuously monitors the clamp-ground connection ensuring resistance in the circuit does not rise above 10 ohms.

- Explosion Proof Control Enclosure incorporating Intrinsically Safe Static Ground Monitoring Interface Module.
- Ground Connection Junction Box with Clamp Stowage Point and Quick Release Connector.
- Heavy Duty Stainless Steel Universal Grounding Clamp with Hytrel™ Extendable Cable and Quick Connectors.



Options
Self-Retracting Cable Reel
Explosion Proof Strobe Light
IEC/Cenelec (European) and NEC/CEC (North American) versions available

Certification
Ingress Protection IP 66 / Nema 4X, 7 & 9
Power Supply 110/120V or 220/240V AC, 50-60 Hz 12V or 24V DC

Earth-Rite TELLUS

The **Earth-Rite TELLUS** monitors static ground connections for a wide range of filling, blending and mixing applications. The flexible and lightweight indicator station is easy to install, and can be mounted in a variety of locations within the hazardous area, with the power supply mounted in the local 'non-hazardous' area. If the **TELLUS** detects an abnormally high resistance in the static dissipation circuit it activates a set of output contacts to halt the process or feed out to control or alarm systems.

- Continuously monitors clamp connection to equipment with a monitoring threshold of 10 ohms or less.
- Bright green flashing LED provides positive indication to personnel.
- Ensures resistance to ground is < 10 Ohms before process may begin.



Options

Alternative grounding clamps or grounding connectors to suit all common applications

Wide range of cable assembly lengths

IEC/Cenelec (European) and NEC/CEC (North American) versions available

Certification



Ingress Protection
IP 65 / Nema 4X

Power Supply

110/120V or 220/240V AC, 50-60 Hz

Earth-Rite MULTIPoint

For specialized plant and equipment situated in combustible or flammable atmospheres, with several potentially isolated conductive components (such as dryers, filling and conveying systems), the **Earth-Rite MULTIPoint** provides static ground monitoring of up to (8) points with operator feedback and interlock capability. For complex or large-scale applications, multiple systems may be grouped together to monitor more than (8) points.

- Common or individual output contacts for optimum safety and control.
- Corrosion resistant and hygienic stainless steel monitoring and indicating panel with diagnostic LED array.
- Power Supply Unit/I.S. Interface Module (for safe area installation).
- Marshalling Junction Box for ease of cable routing and installation.



Options

Clamps, cables and stainless steel quick connectors for plant and equipment (for temporary or permanent connection)

Remote "Hazardous Area" indicator stations

Certification



Ingress Protection
IP 65

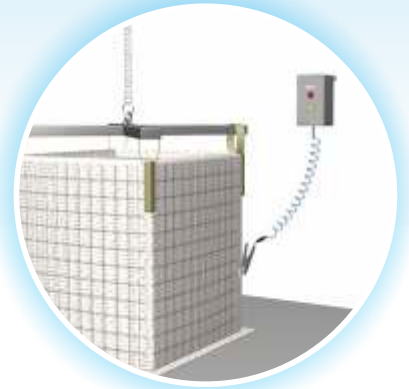
Power Supply

110/120V or 220/240V AC, 50-60 Hz

Earth-Rite FIBC

The **Earth-Rite FIBC** system verifies the resistance and safe grounding of Type C “Big-Bags” or “Super-Sacks” in combustible or flammable atmospheres. The system ensures that resistance of the flexible container is within the correct parameters as specified by International Hazardous Area Static Control Codes of Practice, and may interlock with filling/discharge machinery or control/alarm systems to prevent dangerous levels of accumulation of static electricity on the container and the powder/loose solids contained within.

- Corrosion resistant and hygienic stainless steel monitoring and indicating panel with Red/Green LED Indicator.
- Power Supply Unit/I.S. Interface Module (for safe area installation).
- Special ATEX/FM approved FIBC monitoring clamp and retractable Hytel cable.



Options	Certification
Grounding Clamp/Cable assembly (for 2-clamp installations)	
Hazardous Area Power Supply Enclosure	Ingress Protection IP 65 / Nema 4X
IEC/Cenelec (European) and NEC (North American) versions available	Power Supply 110/120V or 220/240V AC, 50-60 Hz

Earth-Rite OMEGA

The **Earth-Rite OMEGA** is an extremely flexible DIN rail mounted Intrinsically Safe module which may be used in two different ways; first, as a discrete static ground monitoring component in a larger plant instrumentation and control system; second, as part of a dedicated static ground indicator and interlock system for monitoring and controlling in applications as diverse as flammable liquid storage tanks and drum storage racks.

- Install as single or multiple modules.
- Pair of contacts per OMEGA (DPDT).
- Adjustable monitoring range, 1 – 16 Ohms (100 and 600 Ohm versions also available).



Options	Certification
Universal Power Supply (converts AC input to 24V DC output)	
May be supplied assembled with additional system components (Safe/Hazardous Area Enclosures, grounding clamps and devices etc)	Power Supply 24V DC (Universal 110 - 240V AC PSU available)

Detailed **Technical Datasheets and Instruction Manuals** are available on all **Earth-Rite Static Grounding Systems**.

For further information, please contact your nearest office or local distributor who will assist you in **controlling the risk of static caused fires and explosions**.



Leading the way in hazardous area static control

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