

Earth-Rite PLUS

(ATEX Specification)

Static Ground Indicator and Interlock System

The grounding of conductive plant items before the start of liquid or powder transfer and/or mixing in a hazardous area is essential if fires, explosions, injury to personnel and damage to plant are to be prevented.

The **Earth-Rite PLUS** Static Grounding System provides positive verification of static ground connection on a wide range of industrial plant and is ideal for earthing of drums, IBC's, containers, rail tankers and other conductive equipment.

When connected to a conductive piece of equipment such as a drum, the intrinsically safe monitoring circuit verifies a low resistance connection and dissipation path to a designated grounding point. A good connection is confirmed by the indicator lights switching from red to green and the closing of the interlock (switched relay contacts), enabling the product transfer/process to start. Any failure in the earth path will open the interlock and stop the product transfer/process and the indicator lights will switch from green back to red.

The Earth-Rite PLUS is ATEX certified for use in hazardous atmospheres, and is designed in accordance with CLC/TR 50404 (Code of practice for the avoidance of hazards due to static electricity and BS5958 (control of undesirable static electricity).

Systems are available with 230Vac or 110Vac power supplies with models to suit both flammable and safe area environments with ambient temperatures up to +55°C.

The Earth-Rite *RTR* with Tri-Mode technology is the recommended interlocking system for road tanker loading. Please request separate datasheet for this product.



Key features and user benefits of the Earth-Rite PLUS System:

- Interlock stops the operation if the earth or earth connection becomes faulty and immediately halts the source of the static charge generation.
- Simple bright GO/NO-GO traffic light style LED Indicators show system status.
- Complies with International Safety Standards by confirming safe, low resistance static dissipation path (10 or 100 Ohms) from equipment to designated grounding point.
- Separate earth connection junction box simplifies I.S field wiring and repairs in the hazardous area.
- Heavy Duty Stainless Steel Grounding clamp suits all common tankers, drums, conductive plant items.
- High extension, chemically resistant **Cen-Stat™** Hytrel spiral cable for simple, reliable, tidy flexible earthing connection.

Optional system accessories include:-

- For long reach applications the options of 10m or 15m **Cen-Stat™** Hytrel spiral cables or 15.2m cable reels are available.
- 'Quick Connect' plug and socket for easy replacement of earthing cables.
- 'SoundEx' alarm system for use when the transfer/mixing process cannot be interlocked.

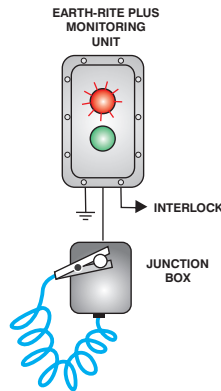


Earth-Rite PLUS

Earth-Rite PLUS Operational Conditions



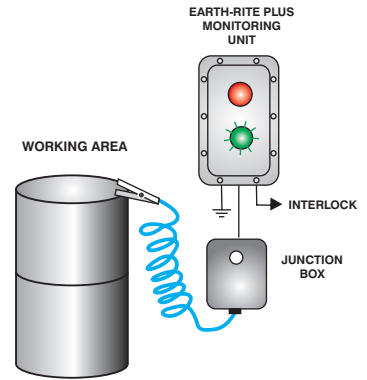
1



RED Light ON
GREEN Light OFF
Relay Contacts OPEN

Clamp is **Not In Use**.
The **Earth-Rite PLUS** system **Will Not Permit** transfer of product.

2



RED Light OFF
GREEN Light ON
Relay Contacts CLOSED

Clamp is attached to a drum.
The **Earth-Rite PLUS** system detects and continuously monitors the low resistance between the drum and the earth connection and **Will Permit** transfer of product.

Each **Earth-Rite PLUS** static grounding system consists of the following equipment:

- Controller (incorporating intrinsically safe monitoring module) and red and green LED Indicator lights.
- Heavy Duty Stainless Steel earthing clamp complete with **Cen-Stat™** Hytrel coated spiral cable (5 metres).
- Remote mounting earth connection junction box complete with clamp stowage point.

Ordering Code	Description	Certification	Ingress Protection
EMUE91	Single Mode system with EExd IIB controller and indicators (230Vac)	System Clamp	IP65
EMUP91	Single Mode system with Safe Area controller and EExe indicator station (230Vac)	Monitoring module Clamp	IP65
EMUP81	Single Mode system with Safe Area controller and indicators for Non-Ex applications (230Vac)	Monitoring module Clamp	IP65
EMUE93	Single Mode system with EExd IIC controller and EExe IIC indicator station (230Vac)	System Clamp	IP65
	EExe IIC indicator station (230Vac)		
Options			
Add /CR	to system part number for 15.2m self retracting cable reel (replaces spiral cable and junction box) See System Accessories Data Sheet for further details.		
Add /S60	to system part number for SoundEx alarm unit for use with non-interlocked systems. See SoundEx Data Sheet for further details.		
Add /110	to system part number for 110Vac powered systems		
Add /QC	to system part number for Quick Connect plug and socket between Junction Box and spiral cable		
NB - Maximum Ambient Operating Temperature + 55° C			

Systems can be adapted to meet your individual needs and site conditions, including alternative bonding connectors and enhanced Ex and IP ratings.

The Earth-Rite PLUS forms part of the Earth-Rite range of Static Grounding and Bonding Equipment available from Newson Gale



Leading the way in hazardous area static control

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