

Earth-Rite® RTR™ Static Grounding for Road Tankers

The **Earth-Rite RTR** is the most advanced Road Tanker Grounding (Earthing) System for protecting personnel and plant assets from static hazards during road tanker loading and offloading operations.

This unique technology ensures product flow cannot take place unless the **RTR** has detected it is connected to a road tanker and connected to a ground capable of dissipating static charges at risk of accumulating on the road tanker. 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 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.

NEW
GENERATION OF
EARTH-RITE
PRODUCTS!



IECEx SIL 2



The **Earth-Rite RTR** includes:

- **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.

Newson Gale | For over 25 years Newson Gale has been supplying the chemical and processing industry worldwide with its market leading range of static control products ensuring people and plant are protected from static related fires and explosions.



Tri-Mode Technology

MODE 1 | Road Tanker Recognition

Confirms RTR clamp is connected to road tanker, excluding connection to other conductive metal objects, (e.g. loading gantry or parts of tank truck not connected to tank container).

MODE 2 | Static Ground Verification

Confirms RTR is connected to a verifiable static dissipative grounding point.

MODE 3 | Continuous Ground Loop Monitoring

Confirms clamp connection and ground connection is good throughout transfer process by ensuring connection resistance does not rise above 10 Ohms.



Pulsing LEDs confirm positive ground condition

Options		Certification	
RTRT System Test Device		IECEx SIL 2	
Mode Selector Keyswitch		Ingress Protection IP 66	Temperature Range -40°C to +55°C -40°F to +131°F
Self-Retracting Cable Reel			
Explosion Proof Strobe Light		Power Supply 110/120V or 220/240V AC, 50-60 Hz	
IEC/Cenelec (European) and NEC/CEC (North American) versions available			

Compliant with CENELEC CLC/TR: 50404 & NFPA77	The monitoring set-point of 10 ohms resistance is compliant with the standards for static control in hazardous areas: CENELEC CLC/TR: 50404 & NFPA77.
Operator friendly interface	Simple GO / NO GO indication informs operator when the road tanker is connected to ground. When a positive ground connection is made the pulsing hi-visibility indicators are activated during the MODE 3 Continuous Ground Loop Monitoring stage.
Control / Interlock capability (Two voltage free output contacts)	The first output contact can be used to interlock with flow control devices (e.g. pumps, valves, PLCs) to ensure product cannot flow unless the RTR has established a ground path for the road tanker. The second output contact can operate attention grabbing devices (e.g. strobe lights) to warn personnel that a hazardous product transfer is underway.
Wide operating temperature range	The RTR system can operate in extreme weather conditions without modifications or enhanced protection (-40°C to +55°C).
Detachable Clamp & Cable	Quick Connect system provides flexible and easy removal of grounding clamp and cable from the hazardous area for maintenance.
Universally Approved Enclosure	Suitable for installation in highest range of gas and vapour environments.

For ordering codes and more detailed technical information please refer to product specification sheet.

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



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