

## Earth-Rite® RTR™ Static Grounding for Tanker Trucks

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

This unique technology ensures product flow cannot take place unless the **RTR** has detected it is connected to a tanker truck and connected to a ground capable of dissipating static charges at risk of accumulating on the tanker truck. When these parameters are confirmed, the **RTR** permits the transfer of product and any static generated on the tanker truck 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 tanker trucks. It may be used with all common types of Bulk Tankers without special modifications.

**NEW**  
GENERATION OF  
**EARTH-RITE**  
PRODUCTS!



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 HytreI™ Extendable Cable and Quick Connectors.

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



## Tri-Mode Technology

### MODE 1 | Tanker Truck Recognition

Confirms RTR clamp is connected to tanker truck, excluding connection to other conductive metal objects, ( e.g. loading gantry or parts of tanker 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

<b>Certification</b>    <b>SIL 2</b> 		<b>Options</b> RTRT System Test Device Mode Selector Keyswitch Self-Retracting Cable Reel Explosion Proof Strobe Light
<b>Ingress Protection</b> IP 66 - NEMA 4X, 7, 9	<b>Temperature Range</b> -13°F to +122°F - CSA -40°C to +55°C - ATEX	
<b>Power Supply</b> Selectable 110/120V or 220/240V AC, 50-60 Hz Selectable 12V or 24V DC		

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 tanker truck. 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: -13°F to +122°F (-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



Leading the way in hazardous area static control

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