

## Earth-Rite *RTR*™ Tri-Mode Technology (PATENT PENDING)



### Technical Specification

The **Earth-Rite *RTR*™** static grounding system includes the following equipment:

Explosion Protected control enclosure incorporating intrinsically safe *RTR*™ tank truck recognition technology with ground resistance monitoring module and red and green LED indicators, (Class I, II, III; Div 1 & 2) 110/120V or 220/240V AC supply.

Heavy duty universal grounding clamp complete with Cen-Stat™ Hytrel coated retractable cable (32ft).

Remote mounting ground connection junction box complete with clamp stowage point.

#### Additional options available:

Quick release plug /socket for quick easy field replacement of clamp or cable.

50ft Self-Rewind Cable Reel enables grounding / monitoring cable to be completely stowed when not in use.

Alternative length Cen-Stat retractable cables.

Earth-Rite *RTR*™ mode selector: enables system to be switched between TRI-Mode and Single Mode for mixed loading operations.

*RTR*™ Tester for initial system set-up and ongoing maintenance.

Visual / Audible Annunciators: for additional / high level alerts of loading fault conditions.

### Ordering Information for FM Approved (Standard) Version

Part No.	Ordering Description
RTR3B4C1	Earth-Rite <i>RTR</i> ™ TRI-Mode system with XP controller, junction box, clamp, retractable cable and instruction sign - 110Vac 60Hz supply
RTRT	<i>RTR</i> ™ Tester for TRI-Mode systems See datasheet for further details
MSKS2	Mode Selector Key Switch (enables TRI-Mode system to be switched to Single Mode) See System Accessories datasheet for further details

The Earth-Rite *RTR*™ has proved invaluable wherever tank trucks are involved in the transfer of flammable products (liquids or bulk powders, flakes or granules). If necessary the system may be adapted to meet your individual needs and site conditions.



# Earth-Rite RTR™ Static Grounding System

## Technical Specification for FM Approved Version

### Ground Monitoring and Interlock Unit

Power Supply and Power Rating	110Vac, 50/60Hz ±10% (240Vac system available) 15 watt
Ambient Temperature Range	-4°F to +104°F (-20°C to +40°C)
Weight	26lbs (12kgs) nett
Enclosure Construction	Copper-free cast-alloy
Functional Safety Rating	SIL 2
Certification - Monitoring Unit and Signal Lamps	Class I, Division 1 & 2, Groups B, C & D
	Class II, Division 1 & 2, Groups E, F & G
	Class III
(Environmental Protection)	Enclosure NEMA 4X
Certification - Ground Monitoring Circuit	Class I, Division 1 & 2, Groups A, B, C & D
	Class II, Division 1 & 2, Groups E, F & G
	Class III
Approval Authority	FM, cULus
Ground Connection Pull-In Resistance	<10 Ohm (nominal)
Ground Status Indicator Lamps	LED's, 1 RED (Ground Fault), 1 GREEN (Ground Healthy)
Control Contact Rating	2off voltage free switched contacts rated, 250Vac 5A, 500VA max resistive load (2 x SPST)
Cable Entries	3 x 3/4" NPT [14TPI] in bottom face of enclosure (1 x plugged)

### Ground Connection Junction Box, Clamp Stowage Pin, Universal Ground Clamp & Retractable Cable

Enclosure	GRP with carbon loading
Terminals	Quantity 6, #12 AWG conductor capacity
Stowage Device	Insulated pin
Cable Entries	3 x 20mm (nylon compression glands supplied)
	1 x Blank face, I.S. Conduit/Cable entry to be drilled on site
<b>Grounding Clamp</b>	
Clamp Design	2 pole with separate isolated contacts
<b>Retractable Cable</b>	
Cover	Blue Cen-Stat Hytrel sheath (chemical & abrasion resistant)
Conductors	2 x AWG 18 [UL] (1.00mm sq), copper
Length	32 feet (10 metres) extended, 39" (1 metre) unextended

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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