

Earth-Rite RTR™ Tri-Mode Technology



Technical Specification

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

Explosion Protected control enclosure incorporating intrinsically safe RTR™ road tanker recognition technology with earth resistance monitoring module and red and green LED indicators, (Ex d (ia) IIB T6) 220/240V or 110/120V AC supply.

Heavy duty universal earthing clamp complete with Cen-Stat™ Hytrel coated retractable cable (10m).

Remote mounting earth 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 earthing / 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 ATEX Approved (Standard) Version

Part No.	Ordering Description
RTR1A1C1/X	Earth-Rite RTR™ Tri-Mode system with Exd controller, junction box, clamp, retractable cable and instruction sign - 230Vac 50Hz supply
RTRT	RTR™ Tester for Tri-Mode systems See datasheet for further details
MSKS1	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 road tankers 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.

Technical Specification for ATEX Approved Version

Earth Monitoring and Interlock Unit

Power Supply and Power Rating	110Vac - 230Vac \pm 10%, 50Hz, 19 watt
Ambient Temperature Range	-20°C to +55°C
Weight	12.0 kgs (Nett)
Enclosure Construction	Copper-free cast-alloy
Functional Safety Rating	SIL 2
Certification - Monitoring Unit and Signal Lamps	Ex d (ia) IIB T6 Ex II 2 (1) GD
(Environmental Protection)	IP65
Certification - Earth Monitoring Circuit	Intrinsically Safe
Approval Authority	SIRA
Earth Connection Pull-In Resistance	<10 Ohm (nominal)
Earth Status Indicator Lamps	LED's, 1 RED (Earth Fault), 1 GREEN (Earth Healthy)
Control Contact Rating	2 off voltage free switched contacts rated, 250Vac 5A, 500VA max resistive load
Cable Entries	5 x M20 in bottom face of enclosure (2 x plugged)

Earth Connection Junction Box, Clamp Stowage Pin, Universal Earth Clamp & Retractable Cable

Enclosure	GRP with carbon loading
Terminals	Quantity 6 x 4mm ² conductor capacity
Stowage Device	Insulated 20mm diameter pin
Cable Entries	4 x 20mm (nylon compression gland supplied for spiral cable)
Earthing Clamp	
Clamp Design	2 pole with separate isolated contacts
Body	Stainless Steel
Retractable Cable	
Cover	Blue Cen-Stat Hytel sheath (Static dissipative chemical & abrasion resistant)
Conductors	2 x 1.00mm ² copper
Length	10 metres extended, 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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