

## Earth-Rite® PLUS™

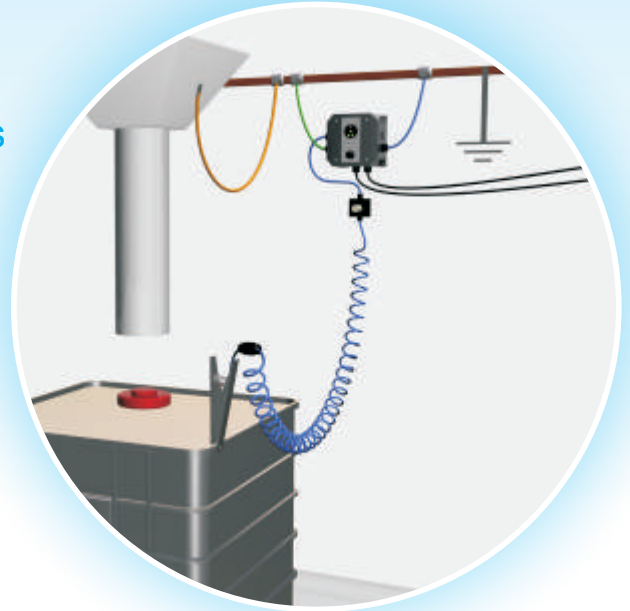
### Static Earthing for Process Plant & Equipment in Zone 2/21/22 atmospheres

The **Earth-Rite PLUS** is designed to safely remove static electricity from plant equipment and eliminate the risk of uncontrolled incendive static spark discharges.

Static electricity is capable of providing an ignition source in areas where many combustible powders are processed or handled. The amount of energy required will depend on the explosive characteristics of the dust/air mix, but in order to control these risks, the **Earth-Rite PLUS** may be used to safely dissipate electrostatic charges from plant equipment and prevent uncontrolled incendive static spark discharges.

The **Earth-Rite PLUS** continuously monitors the connection to the potentially charged object and the system's own connection to the designated site plant earth, ensuring any static charges generated on the object are removed from the hazardous area.

Three attention grabbing LEDs pulse repeatedly to indicate to operators when the object to be earthed has a 10 ohm (or less) connection to the designated site plant earth.



**IECEx SIL 2**

The **Earth-Rite PLUS** includes:

- **SDP Controller (static dissipative polyester) with Intrinsically Safe Monitoring Module.**
- **Universal Grounding Clamp with 5m (16ft) of 2 conductor Hytrel™ Protected Cable.**
- **Junction Box with Stowage Pin for stowing Universal Grounding Clamp.**



## Features and Benefits

**Attention grabbing LEDs** | Three green LEDs continuously pulse informing operators that the object to be protected from static discharges is correctly earthed. When the system is not in use, or when it detects the resistance in the static dissipative loop is higher than 10 ohms\*, a red LED illuminates the indicator panel located in the SDP indicator station.

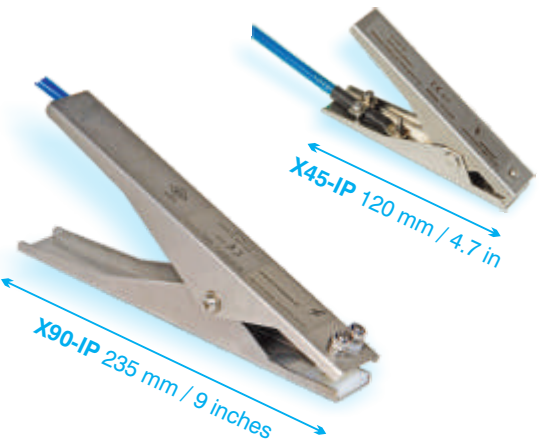
**Continuous Ground Loop Monitoring** | monitors the resistance of the static dissipative loop from the earthed object through to the plant earthing point. If the system detects that resistance in the loop is higher than 10 ohms, it engages a pair of output contacts.

**Two volt free output contacts** | The primary contact can interlock with electro-mechanical devices or PLC systems to shutdown the flow of product. The secondary contact can interface with attention grabbing audible alarms or strobe lights to provide an extra degree of safety over the hazard.

**Easy Installation** | Simple "bolt-on" SDP enclosures complimented by straightforward cabling and PCB system wiring requirements. Flexible hazardous area enclosure location options with separate IS monitoring / indicator and Power supply PCBs. Power supply PCB can run off both 240V and 110V mains supply.



Universal grounding clamp with Quick Connect and optional lengths of Hytrel protected 2 core cable included.



**X90-IP** Designed for grounding drums and large containers.

**X45-IP** Designed for grounding small drums and containers.



Earth-Rite PLUS is designed for Zone 2/21/22 installations

\* The internationally recognised standards for the control of the hazards of static electricity in flammable and combustible atmospheres, CENELEC CLC/TR: 50404 and NFPA 77, recommend that the maximum resistance between conductive metal plant equipment and proven earth-connected points should be equal to, or less than, 10 ohms.

<b>Options</b>		<b>Certification</b>	
Zone 1 Ex(d) Flameproof Enclosure			
X90-IP or X45-IP 2 Pole Clamps		<b>Ingress Protection</b>	<b>Temperature Range</b>
Explosion Proof Strobe Light		IP 66	-40°C to +55°C -40°F to +131°F
IEC/Cenelec (European) and NEC/CEC (North American) versions available		<b>Power Supply</b>	
		110/120V or 220/240V AC, 50-60Hz	

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

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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