

## Bond-Rite® EZ Portable static bonding assembly



The **Bond-Rite® EZ** is an easy to use hand-held portable static bonding device that can quickly and securely establish and verify an equipotential bond between equipment for operations conducted in EX areas.

**Enquiry** > Click here to submit a product related query or a request for quotation.

The Bond-Rite EZ is a flexible “go-anywhere” hazardous area certified static bonding device that verifies when two metal objects, that are at risk of discharging static sparks, are bonded together with a resistance of 10 ohms or less.

When the Bond-Rite EZ detects that the resistance between the equipment is 10 ohms or less the green LED pulses continuously.

Once connected the Bond-Rite EZ continuously monitors the resistance of the circuit between the bonded equipment.

The pulsing green LED provides process operators with a continuous visual reference point that enables them to monitor the bonding status of the equipment.

In addition to bonding, the Bond-Rite EZ can be used by competent electrical personnel to ground objects at risk of electrostatic charging.

In such scenarios, the competent electrical person must be sure that the grounding point, e.g. wall mounted bus-bar, has a verified connection to the general mass of the earth.

The Bond-Rite EZ houses the ground loop monitoring circuit and a bright green LED in a rugged stainless steel enclosure.

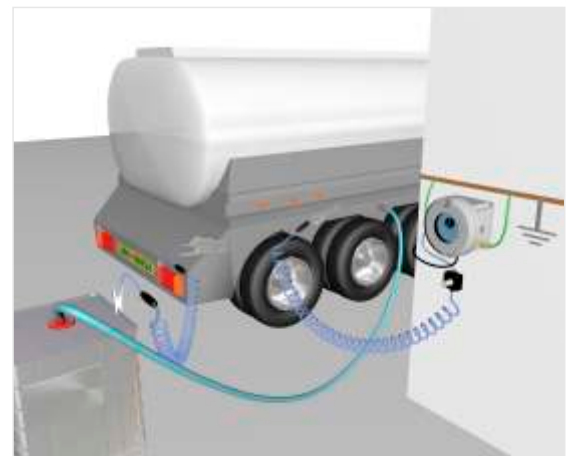
10 ohms is the benchmark resistance specified in IEC 60079-32-1\* and NFPA 77\*.

\*IEC 60079-32, “Explosive atmospheres: electrostatic hazards, guidance”.

\*NFPA 77, “Recommended Practice on Static Electricity”.



**Bond-Rite EZ**



Example of grounded truck bonded to IBC

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### Features and Benefits

- > Compliant with **IEC 60079-32, NFPA 77 & API recommended practice** the certified intrinsically safe electronics monitor the bonding circuit through the clamp ensuring the resistance does not rise above 10 ohms.
- > Designed for long lifetime use the **Stainless Steel clamp body** is mechanically robust and designed for use in heavy duty industrial environments - resistant to chemical attack and environmental corrosion.
- > Aided by powerful spring action, **tungsten carbide teeth** bite through hardened layers of product deposits, rust and layers of dirt to guarantee direct contact with all conductive metal equipment surfaces.
- > **In-line quick connectors** allow flexible interchangeability of different clamp sizes and cable lengths - useful for storing and replacing clamps and cables.
- > **Certified intrinsically safe circuit** permits the **Bond-Rite® EZ** to be used in the highest risk gas, vapour and dust atmospheres.



Bond-Rite EZ with large heavy duty clamp and 5 m (16 ft.) of Cen-Stat™ protected cable. Also available with standard size heavy duty clamp.

### Applications

- > Bonding containers that could cause inductive electrostatic charging.
- > One-time scenarios where a visually verified bond is preferred to the use of passive single-pole clamps and cable.
- > Connecting vessels, IBCs, barrels to verified true earth grounding points.



Tungsten Carbide Teeth



In-Line Quick Connect.

The Bond-Rite® EZ forms part of the Bond-Rite® range of Static Grounding and Bonding Equipment available from Newson Gale Ltd

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### Equipment Options

Newson Gale supplies a range of product options that enhance the control and general safety of transfer processes and aid engineers with system installations and routine system service checks.

#### **Cable length options**

Equipment specifiers can order the Bond-Rite EZ with 2-pole Cen-Stat cable on standard spiral lengths of 3 m (10 ft.), 5 m (16 ft.) and 10 m (32 ft.) of cable.

The spiral cable provides effective retractability when the clamp is not in use, ensuring the cable is neatly stowed and safely out of the way.



#### **Universal Resistance Tester**

The URT is designed to provide installers and maintainers of Newson Gale **Earth-Rite®** and **Bond-Rite®** static grounding systems with a means of regularly testing the grounding settings for their system on a routine basis.

Periodic testing with the URT verifies that the grounding system's **GO/NO GO** settings are working in compliance with the recommendations of:

**NFPA 77:** "Recommended Practice on Static Electricity."

**IEC 60079-32-1:** "Explosive atmospheres. Part 32-1: Electrostatic hazards, guidance."

The easy to use tester consists of a pair of rotary switches that enable a competent electrical person to check the resistance level at which the grounding system should be working and conduct a PASS / FAIL test at the required setting.

**Bond-Rite®** products that can be tested with the URT include:

- > Bond-Rite® CLAMP
- > Bond-Rite® EZ
- > Bond-Rite® REMOTE



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Technical Specification

IECEX & ATEX certification details

<b>Ingress protection</b>	IP64
<b>Maximum ambient temperature</b>	-40°C to +60°C
<b>Certification</b>	Ex II 1 GD Ex ia IIC T4 Ga Ex ia IIIC T135°C Da
<b>Approval authority</b>	ExVeritas Test & Certification
<b>Monitored Loop Resistance</b>	≤10 ohm
<b>Indicator Lamp LED</b>	1 green

**Contact Us >** Your enquiry will be processed rapidly via our webform enquiry service. If you would prefer to call us, or e-mail us, please use the contact details provided below.

North American certification details

<b>Maximum ambient temperature</b>	-40°F to +140°F (-40°C to +60°C)
<b>Certification</b>	Class I Div 1, Groups, A, B, C & D Class II Div1, Groups, E, F & G Class III Div1.
<b>Approval authority</b>	CSA
<b>Monitored Loop Resistance</b>	≤10 ohm
<b>Indicator Lamp LED</b>	1 green

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