

# Bond-Rite® CLAMP

Self-testing static grounding clamp



The **Bond-Rite® CLAMP**, patented exclusively by Newson Gale, is the only static grounding clamp that provides operators with a visual reference that potentially charged equipment is connected to a verified static grounding point.

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

The Bond-Rite CLAMP contains a bright green LED which pulses continuously when it detects that the resistance between the equipment to be grounded and the site's verified earth ground (e.g. copper tape) is 10 ohms or less.

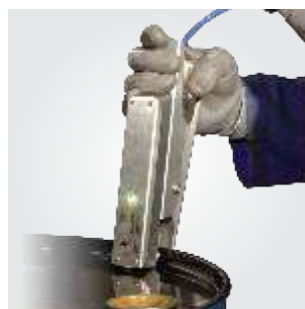
Once connected the Bond-Rite CLAMP continuously monitors the resistance of the circuit between the equipment and the verified ground point (e.g. wall-mounted bus bar).

The pulsing green LED provides process operators with a continuous visual reference point that enables them to monitor the ground status of equipment at risk of accumulating static electricity and discharging static sparks.

The Bond-Rite CLAMP is an ideal solution for applications and installations where interlocks with the process are not possible.

### Typical Applications

- > Filling and dispensing to/from metal containers, including drums, waste drums, mixing vessels.
- > Grounding equipment used in mixing and blending operations.



**Bond-Rite CLAMP:**  
Pulsing LED confirms equipment is grounded.



**Bond-Rite CLAMP**

### Certification



### Battery

9 V Lithium-Manganese  
(battery included)

### Monitoring Set Point

10 ohms

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Features and Benefits

- > **Highly visible LED** housed in grounding clamp ensures operators know when low resistance connection is achieved with potentially charged equipment.
- > **Tungsten carbide teeth** bite through product deposit build up, rust & drum coatings to ensure proper bonding connections are made.
- > **Stainless steel clamps** designed to withstand use in tough chemical processing and industrial environments.
- > **Quick Connect** provides personnel with the flexibility of removing the clamp from zoned / classified areas for battery replacement.
- > **10 ohms loop resistance** monitoring compliant with international Recommended Practice\*.
- > **Junction box** mounted stowage pin provides operators with location to return the clamp when the process is complete.

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

\*NFPA 77, "Recommended Practice on Static Electricity".



**Bond-Rite CLAMP**

supplied with 2 conductor cable, junction box, clamp stowage pin and grounding leads. Circuit monitoring board and battery mounted inside clamp. Grounding bus-bar not supplied.



Tungsten Carbide teeth penetrate static dissipation inhibitors including rust, product deposits and paint coatings.

The replaceable 9 V battery provides up to 6 months of power for equipment grounded for up to an average of 6 hours per day. If longer periods are required please contact us for alternative **Bond-Rite** options.

## **Bond-Rite® CLAMP** Self-testing static grounding clamp

### 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 CLAMP with 2-pole Gen-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
<b>CLAMP dimensions</b>	Length: 235 mm (9.25") Width: 34 mm (1.4")

**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
<b>CLAMP dimensions</b>	Length: 9.25". (235 mm) Width: 1.4". (34 mm)

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