

Leading the way in hazardous area static control

Bond-Rite®

Self testing clamps with visual indication and monitoring

Bond-Rite®

Self Testing Clamps

The **Bond-Rite** range of self testing clamps enables personnel engaged in processing flammable and combustible products to confirm that conductive equipment subjected to hazardous levels of electrostatic charge accumulation is capable of dissipating static safely and effectively.

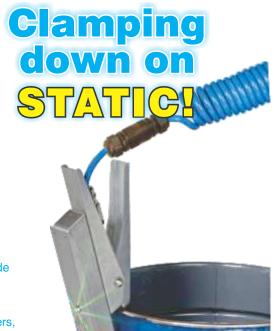
- If the Green LED flashes continuously once the clamp is connected, the operator running the process can proceed knowing that hazardous electrostatic charges will not accumulate on the equipment.
- Once connected the Bond-Rite continuously monitors the resistance of the circuit between the equipment and the verified ground point (e.g. wall-mounted bus bar).
- If a resistance greater than 10 ohms is detected in the circuit the LED will Stop Flashing warning the operator of a potential static hazard.











Bond-Rite Applications

Grounding conductive containers, drums, IBCs and vessels engaged in a wide range of potentially hazardous processes, including filling, mixing and blending operations carried out in potentially flammable or combustible atmospheres.

Bonding vehicles and pump skids transferring flammable product into containers, IBCs and drums.



DANGER Static Hazard

Bond-Rite CLAMP

The **Bond-Rite CLAMP**, patented exclusively by Newson Gale, is the only static grounding clamp, which provides operators with visual verification that potentially charged equipment is connected to a verified static grounding point. The clamp contains a bright green LED which flashes continuously when the clamp detects the grounding circuit has a resistance of 10 ohms or less, informing the operator that hazardous electrostatic charges do not have the potential to accumulate on the equipment. The battery provides up to 6 months of power for equipment grounded for up to an average of 6 hours per day.

- Highly visible LED housed in grounding clamp ensuring 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 Best Practice standards.
- Clamp stowage pin encourages operators to return the clamp when the process is complete.



Bond-Rite CLAMP with Quick Connect



Quick Connect



Certification





IECEx

Ingress Protection IP 65 / NEMA 4X

Battery Supply9V Lithium (Battery included)

Bond-Rite® REMOTE

For processes where a wall mounted indicator is preferred two enclosure options are available. The standard SDP (Static dissipative plastic) enclosure is suitable for general processing environments, whereas the stainless steel enclosure caters for corrosive or hygienic environments. The battery provides up to 6 months of power for equipment grounded for up to an average of 6 hours per day.

- Highly visible LED mounted in indicator station ensuring operators know when low resistance connection is achieved with potentially charged equipment.
- Tungsten carbide teeth bite through product deposits, vessel/drum coatings and rust to ensure proper bonding connections are made.
- Stainless steel 2 pole clamps designed to withstand use in tough chemical processing and industrial environments.
- 10 ohms loop resistance monitoring compliant with international Best Practice standards.



Options

Static Dissipative Plastic indicator station for general process environments

Stainless steel indicator station for corrosive or hygienic environments

X90-IP clamp for use on IBCs and large containers

X45-IP clamp for use on drums and smaller vessels

5m (16ft), 10m (32ft) or 15m (50ft) of Hytrel protected retractable spiral cable



Certification







Ingress Protection IP 65 / NEMA 4X / IP 66

Battery Supply 9V Lithium (Battery included)

Bond-Rite® REMOTE (EP)

For process applications that require grounding for more than 6 hours per day, the **Bond-Rite REMOTE EP** utilises 230V or 110V mains supply to power the monitoring circuit of each indicator station. The IS current is provided by the power supply which is located in the 'non-hazardous' area with indicator stations mounted in the zoned (classified) area.

- Provides option of bonding equipment for processes that last 6 hours or longer, including processes that require continuous static grounding.
- Highly visible LED mounted in indicator station ensuring operators know when low resistance connection is achieved with potentially charged equipment.
- Tungsten carbide tips bite through product deposits, paint and rust to ensure proper binding connections are made.
- Stainless steel clamps designed to withstand use in tough chemical processing and industrial environments.
- 10 ohms loop resistance monitoring compliant with international Best Practice standards.



Options

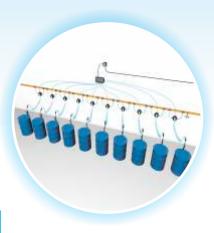
Static Dissipative Plastic indicator station for general process environments

Stainless steel indicator station for corrosive or hygienic environments

X90-IP clamp for use on IBCs and large containers

X45-IP clamp for use on drums and small vessels

5m (16ft), 10m (32ft) or 15m (50ft) of Hytrel protected retractable spiral cable



Certification



IECEx

Ingress Protection
IP 65 / NEMA 4X / IP 66

Power Supply 220/240V ac or 110V/120V ac

Bond-Rite® EZ

The **Bond-Rite EZ** is a unique portable unit that bonds equipment engaged in liquid or powder transfers conducted in locations where installed grounding & bonding equipment is not provided. The **EZ** comprises a **Bond-Rite CLAMP** with a flashing LED located in the clamp housing combined with the option of a heavy duty or medium duty 2 pole clamp, plus a flexible range of cable length options to complete the assembly.

- Provides user with the flexibility of bonding equipment in locations where permanent grounding & bonding installations are not provided.
- Option of using two sizes of clamp plus 5m (16ft), 10m (32ft), or 15m (50ft) of Hytrel protected 2-core retractable spiral cable.
- Tungsten carbide tips bite through product deposits, paint and rust to ensure proper bonding connections are made.
- Stainless steel clamps designed to withstand use in tough chemical processing and industrial environments.
- 10 ohms loop resistance monitoring compliant with international Best Practice standards.





Options

X90-IP clamp for use IBCs and large containers

X45-IP clamp for use on drums and smaller vessels

5m (16ft), 10m (32ft) or 15m (50ft) of Hytrel protected retractable spiral cable

Certification







Ingress Protection IP 65 / NEMA 4X

Battery Supply

9V Lithium (Battery included)

2 Pole Clamps

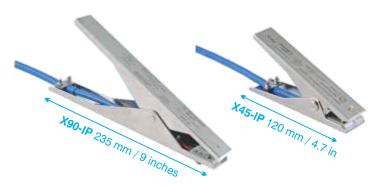
Newson Gale's 2 pole static grounding clamps are approved and certified for use within ATEX zones and North American classified areas. In order to meet and exceed these requirements the grounding clamps must be capable of passing a range of stringent tests.





Testing Standards required for ATEX certification & FM Global approval

- Electrical Continuity Testing, ensuring the continuity from the tip throughout the clamp is less than 1 ohm.
- Clamp Pressure and Mechanical Strength Testing, ensuring the clamp is capable of establishing and maintaining low resistance electrical contact with equipment.
- High Frequency Vibration Testing ensures the clamp is capable of maintaining positive contact when attached to vibrating equipment.
- Sources of Mechanical Sparking ensures no mechanical sparking sources are present in the clamp.



X90-IP Designed for grounding drums and large containers.

X45-IP Designed for grounding smaller drums and vessels.



Universal Jaw Grip capable of connecting to a wide selection of applications ranging from **Drums to Grounding Rods**



2 Pole Clamp Benefits

Positive Contact - the powerful combination of sharpened tungsten carbide tips supported by a positive spring mechanism ensures coatings, product deposits or corrosion does not prevent the clamp from connecting directly to the equipment to be grounded.

Ergonomic - 2 pole clamps are designed to be easy to grip and open aiding operators engaged in making repetitive daily grounding connections.

Long Term Value - additional value is provided by the corrosion resistant and mechanically robust stainless steel construction which helps reduce long term replacement costs that are typical of lower quality grounding clamps.

Detailed Technical Datasheets and Instruction Manuals are available on all Bond-Rite Self Testing Clamps and Assemblies. For further information, please contact your nearest office or local distributor who will assist you in controlling the risk of static caused fires and explosions.



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