

1 **UNITED KINGDOM CONFORMITY ASSESSMENT**
2 **UK TYPE EXAMINATION CERTIFICATE**

3 **Product Intended for use in Potentially Explosive Atmospheres**
4 **UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

5 Type Examination Certificate Number: **ExVeritas 21UKEX0835X** Issue: **0**

6 Product: Bond Rite Remote

7 Manufacturer: Newson Gale Limited

8 Address: Omega House, Private Road 8, Colwick, Nottingham, NG4 2JX, UK

9 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

10 ExVeritas Limited Approved Body number 2585, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

11 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with:


EN IEC 60079-0:2018 EN 60079-11:2012 EN 60079-31:2014

Except in respect of those requirements listed at section 16 of the schedule to this certificate.

12 If the sign “X” is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

13 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

14 The marking of the equipment shall include the following:

 II 1 G Ex ia IIC T4 Ga
II 1 D Ex ta IIIC T135°C Da
(Ta = -40°C to +60°C)



No. 8613

On behalf of ExVeritas



S Clarke CEng MSc FIET
Managing Director

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The status of this certificate can be verified at www.exveritas.com

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Schedule

13 Description of Product

The Bond-Rite REMOTE provides an intrinsically safe output to a clamp, which is connected to the equipment via a bonding cable. The equipment is designed to be used with all types of metallic plant such as drums, road and rail tankers, IBCs, mixing vessels and other similar applications. Connection of the clamp prevents a dangerous build up of static charge during transfer, handling or mixing operations, enabling it to 'bleed' safely to earth. Its use assumes that no charge is present prior to the clamp being attached. The Bond-Rite REMOTE provides an indication that the resistance between clamp and the plant to which it is attached is less than 10 ohms. Under these circumstances, an LED on the cover will be illuminated. A loop connection to earth also ensures that the item of plant is connected to earth.

The Bond-Rite REMOTE has two power options: it is either powered by an internal battery or is supplied from an external Newson Gale power supply unit (ER UPS).

The safety description of the Bond-Rite REMOTE is as follows:

Power supply input (for units without the battery fitted)	Output to clamp and earth
U _i = 9.0 Vdc	U _o = 11.1 V
C _i = 0	I _o = 0.143 A
L _i = 0	P _o = 0.26 W
	C _o = 0.9 µF
	L _o = 1734 µH

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R3140B/1	2022-04-29	0	Initial issue of the Prime Certificate

14.2 Compliance Drawings:

Issue 0

Number	Issue	Description	Date
AA0204R1A-CERT	A	Bond-Rite II	07/02/2011
AA0204R1A-PLC	A	Bond-Rite II Certified Parts List	07/02/2011
AA0204R1A-CB-CERT	A	Bond-Rite II Board PCB Layout	07/02/2011
AA0204R1A-CT-CERT	A	Bond-Rite II Board PCB Layout	07/02/2011
AA0204R1A-SS-CERT	A	Bond-Rite II Board PCB Layout	07/02/2011
B-RR-2011 GA	2A	Bond-Rite Remote Using GRP or Stainless Steel Enclosure	11/07/2012
BRR LAB UKCA 1	AC	UKCA CERTIFICATION DETAIL BOND-RITE REMOTE	31/03/2022

15 Specific Conditions of Use

15.1 Special Conditions for Safe Use

- The replacement battery shall be one of the following types only:
 - Ultralife type U9VL-J
 - Varta type 6122

These batteries are intrinsically safe and may be replaced when the equipment is in a hazardous area. The battery must be removed when the equipment is externally powered.

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2. The number of Bond-Rite REMOTE units that can be connected to the power supply with an output voltage (U_o) not exceeding 9.0 V depends on the following:
 - External capacitance of the power supply, $C_o(P/S)$
 - External inductance of the power supply, $L_o(P/S)$
 - Total capacitance of all the cables between the power supply and the connected Bond-Rite REMOTE units, C_{cable}
 - Total inductance of all the cables between the power supply and the connected Bond-Rite REMOTE units, L_{cable}
 - In the system comprising a single power supply and multiple Bond-Rite REMOTE units, C_{cable} must not exceed $C_o(P/S)$ and L_{cable} must not exceed $L_o(P/S)$

15.2 Routine tests

1. The Bond-Rite REMOTE incorporates previously certified enclosures as listed below:

Certificate number	Details
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IECEX PTB 08.0003U,	ROSE Systemtechnik type 26. enclosure
IECEX PTB 07.0059U,	ROSE Systemtechnik type 35. enclosure (s/s)

2. Each manufactured sample of the Bond-Rite REMOTE with a stainless steel enclosure shall be subjected to an electric strength test using a test voltage of 500 Vac applied between the circuit and enclosure for 60 s. Alternatively, a voltage of 20% higher may be applied for 1 s. There shall be no evidence of flashover or breakdown and the maximum current flowing shall not exceed 5 mA.

16 Essential Health and Safety Requirements (Regulations Schedule 1)

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform ExVeritas of any modifications to the design of the product described by this schedule.

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