

1 EU - Type Examination Certificate

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 19ATEX0547X Issue: 0

4 Equipment: Bond-Rite REMOTE

5 Manufacturer: Newson Gale Limited

6 Address: Omega House, Private Road 8, Colwick, Nottingham, NG4 2JX,
United Kingdom

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2585 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

EN 60079-0:2018


EN 60079-11:2012

EN 60079-31:2014

10 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.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment shall include the following:

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



No. 8613

On behalf of ExVeritas

ExVeritas
S Clarke MSc CEng FIEE
Certification Manager

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The certificate is only valid when it carries an original signature.

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ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.

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Schedule

13 Description of Equipment or Protective System

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
$U_i = 9.0 \text{ Vdc}$	$U_o = 11.1 \text{ V}$
$C_i = 0$	$I_o = 0.143 \text{ A}$
$L_i = 0$	$P_o = 0.26 \text{ W}$
	$C_o = 0.9 \mu\text{F}$
	$L_o = 1734 \mu\text{H}$

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R2249/A/5	18/11/2019	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 1	AG	Certification Detail Bond-Rite Remote	21/10/2019

15 Conditions of Certification

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 Conditions for Manufacture

The Manufacturer shall comply with the following condition of manufacture:

1. The Bond-Rite REMOTE incorporates previously certified enclosures as listed below. It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.

Certificate number	Details
IECEX PTB 08.0003U, PTB 01ATEX1061U	ROSE Systemtechnik type 26. enclosure
IECEX PTB 07.0059U, PTB 01ATEX1101U	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

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 the Notified Body of any modifications to the design of the product described by this schedule.

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