



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx EXV 19.0061X** Page 1 of 4 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-11-25

Applicant: **Newson Gale Limited**
Omega House
Private Road 8
Colwick
Nottingham NG4 2JX
United Kingdom

Equipment: **Bond-Rite REMOTE**

Optional accessory:

Type of Protection: **Intrinsic Safety, Protection by Enclosure**

Marking: Ex ia IIC T4 Ga
Ex ta IIIC T135°C Da
Ta = -40°C to +60°C

Approved for issue on behalf of the IECEx
Certification Body:

Sean Clarke CEng MSc FIET

Position:

Certification Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

ExVeritas Limited
Units 16-18 Abenbury Way
Wrexham Ind. Est.
Wrexham LL 139UZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: **IECEX EXV 19.0061X**

Page 2 of 4

Date of issue: 2019-11-25

Issue No: 0

Manufacturer: **Newson Gale Limited**
Omega House
Private Road 8
Colwick
Nottingham NG4 2JX
United Kingdom

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/EXV/ExTR19.0065/00](#)

Quality Assessment Report:

[GB/EXV/QAR19.0009/00](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx EXV 19.0061X**

Page 3 of 4

Date of issue: 2019-11-25

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1.	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	
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 $L_o(P/S)$	



IECEx Certificate of Conformity

Certificate No.: **IECEx EXV 19.0061X**

Page 4 of 4

Date of issue: 2019-11-25

Issue No: 0

Additional information:

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)

Ui	=	9.0 Vdc	Uo	=	11.1 V
Ci	=	0	Io	=	0.143 A
Li	=	0	Po	=	0.26 W
			Co	=	0.9 μ F
			Lo	=	1734 μ H

Conditions of 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.						
	<table border="1"><thead><tr><th>Certificate number</th><th>Details</th></tr></thead><tbody><tr><td>IECEx PTB 08.0003U,</td><td>ROSE Systemtechnik type 26. enclosure</td></tr><tr><td>IECEx PTB 07.0059U,</td><td>ROSE Systemtechnik type 35. enclosure (s/s)</td></tr></tbody></table>	Certificate number	Details	IECEx PTB 08.0003U,	ROSE Systemtechnik type 26. enclosure	IECEx PTB 07.0059U,	ROSE Systemtechnik type 35. enclosure (s/s)
Certificate number	Details						
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						

Annex:

[EXV 19.0061X Annex 0.pdf](#)

Manufacturer's documents:			
Drawing No.:	Rev.	Title:	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

