



# Certificate of Compliance

**Certificate:** 2447514

**Master Contract:** 220734

**Project:** 80156242

**Date Issued:** February 15, 2023

**Issued to:** Newson Gale Limited  
Omega House  
Private Road 8  
Colwick, Nottingham  
NG4 2JX  
UNITED KINGDOM

**Attention:** Mr. Gary Cawthorn

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only*



**Issued by:**

  
John Kusi-Amoateng

## **PRODUCTS**

**CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations**

**Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div. 1:**

**Ex ia IIC T4 Ga:**

**DIP A20 IP66 T135C:**

Bond-Rite REMOTE Static Earthing System, Model BRRPUP and BRRMUP; intrinsically safe for Class I, Div. 1, Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class III, Div. 1; Class I, Zone 0, Group IIC; Class II, Zone 20; when connected to Newson Gale Model UPS Universal Power Supply, Model ER/UPS/AC; with entity input



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parameters of:  $V_{max}/U_i = 9.0$  V,  $I_{max}/I_i = n/a$ ,  $P_i = n/a$ ,  $C_i = 0$ ,  $L_i = 0$ ; providing intrinsically safe output for Class I, Div. 1, Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class III, Div. 1; Class I, Zone 0, Group IIC; Class II, Zone 20; with entity output parameters of:  $V_{oc}/U_o = 11.1$  V,  $I_{sc}/I_o = 143$  mA,  $P_o = 260$  mW,  $C_a/C_o = 0.9$   $\mu$ F,  $L_a/L_o = 1.734$  mH; when installed per installation drawing BRR-Q-11185 cCSAus; Temp. Code T4; Ambient: -40 Deg. C to +60 Deg. C; Enclosure Type 4X, IP66.

Bond-Rite REMOTE Static Earthing System, Model BRRPUB and BRRMUB; battery operated (one Ultralife U9VL-J 9V Lithium Manganese cell or Varta type 6122 Lithium Manganese cell); intrinsically safe for Class I, Div. 1, Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class III, Div. 1; Class I, Zone 0, Group IIC; Class II, Zone 20; providing intrinsically safe output for Class I, Div. 1, Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class III, Div. 1; Class I, Zone 0, Group IIC; Class II, Zone 20; with entity output parameters of:  $V_{oc}/U_o = 11.1$  V,  $I_{sc}/I_o = 143$  mA,  $P_o = 260$  mW,  $C_a/C_o = 0.9$   $\mu$ F,  $L_a/L_o = 1.734$  mH; when installed per installation drawing BRR-Q-11185 cCSAus; Temp. Code T4; Ambient: -40 Deg. C to +60 Deg. C; Enclosure Type 4X, IP66.

**CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations- CERTIFIED TO U.S. STANDARDS**

**Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div. 1:**

**AEx ia IIC T4 Ga:**

**AEx iaD 20 T135C:**

Bond-Rite REMOTE Static Earthing System, Model BRRPUP and BRRMUP; intrinsically safe for Class I, Div. 1, Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class III, Div. 1; Class I, Zone 0, Group IIC; Class II, Zone 20 when connected to Newson Gale Model UPS Universal Power Supply, Model ER/UPS/AC; with entity input parameters of:  $V_{max}/U_i = 9.0$  V,  $I_{max}/I_i = n/a$ ,  $P_i = n/a$ ,  $C_i = 0$ ,  $L_i = 0$ ; providing intrinsically safe output for Class I, Div. 1, Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class III, Div. 1; Class I, Zone 0, Group IIC; Class II, Zone 20; with entity output parameters of:  $V_{oc}/U_o = 11.1$  V,  $I_{sc}/I_o = 143$  mA,  $P_o = 260$  mW,  $C_a/C_o = 0.9$   $\mu$ F,  $L_a/L_o = 1.734$  mH; when installed per installation drawing BRR-Q-11185 cCSAus; Temp. Code T4; Ambient: -40 Deg. C to +60 Deg. C; Enclosure Type 4X, IP66.

Bond-Rite REMOTE Static Earthing System, Model BRRPUB and BRRMUB; battery operated (one Ultralife U9VL-J 9V Lithium Manganese cell or Varta type 6122 Lithium Manganese cell); intrinsically safe for Class I, Div. 1, Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class III, Div. 1; Class I, Zone 0, Group IIC; Class II, Zone 20; providing intrinsically safe output for Class I, Div. 1, Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class III, Div. 1; Class I, Zone 0, Group IIC; Class II, Zone 20; with entity output parameters of:  $V_{oc}/U_o = 11.1$  V,  $I_{sc}/I_o = 143$  mA,  $P_o = 260$  mW,  $C_a/C_o = 0.9$   $\mu$ F,  $L_a/L_o = 1.734$  mH; when installed per installation drawing BRR-Q-11185 cCSAus; Temp. Code T4; Ambient: -40 Deg. C to +60 Deg. C; Enclosure Type 4X, IP66.



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### APPLICABLE REQUIREMENTS

- C22.2 No. 25-1966 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
- CAN/CSA-C22.2 No. 94-M91 - Special Purpose Enclosures
- C22.2 No. 142-M1987 - Process Control Equipment
- CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
- CAN/CSA-C22.2 No. 60079-0:11 - Explosive Atmospheres - Part 0: Equipment - General requirements
- CAN/CSA-C22.2 No. 60079-11:11 - Explosive Atmospheres – Part 11: Equipment protection by intrinsic safety "i"
- CAN/CSA-E61241-1-1:02 - Electrical apparatus for use in the presence of combustible dust – Part 1-1: Electrical Apparatus protected by enclosures and surface temperature limitation – Specification for apparatus
- UL 50 (11<sup>th</sup> Ed.) - Enclosures for Electrical Equipment
- UL 746C (6<sup>th</sup> Ed.) - Polymeric Materials – Use in Electrical Equipment Evaluations
- UL 913 (7<sup>th</sup> Ed.) - Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations
- UL 916 (4<sup>th</sup> Ed.) - Energy Management Equipment
- ANSI/UL 60079-0:09 - Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
- ANSI/UL 60079-11:09 - Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i"
- ANSI/ISA-61241-0 (12.10.02)-2006 - Electrical Apparatus for Use in Zone 20, Zone 21 and Zone 22 Hazardous (Classified) Locations – General Requirements
- ISA-61241-1 (12.10.03)-2006 - Electrical Apparatus for Use in Zone 21 and Zone 22 Hazardous (Classified) Locations – Protection by Enclosures "tD"
- ANSI/ISA-61241-11 (12.10.04)-2006 - Electrical Apparatus for Use in Zone 20, Zone 21 and Zone 22 Hazardous (Classified) Locations – Protection by Intrinsic Safety "iD"



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## **MARKINGS**

The following marking details shall appear:

- CSA Monogram w/C US Indicator.
- Manufacturer's name.
- Model designation.
- Date code or S/N.
- Certificate reference ("CSA 2011 2447514")
- Hazardous Locations designations.
- Temperature Code Rating.
- Minimum and Maximum ambient temperature.
- The symbol "Ex ia"
- Reference to I.S. installation instructions BRR-Q-11185 cCSAus
- Special Purpose Enclosure Rating "Type 4X"
- Ingress Rating "IP 66"
- Cautions "Warning: Substitution of components may impair intrinsic safety" or "Warning: Substitution of components may impair suitability for use in a hazardous location" or equivalent;
- The statement: "This equipment must be powered from an Ultralife U9VL-J battery, Varta 6122 E-block battery or the Newson Gale Power Supply, Type UPS"
- The statement: "Warning – Potential Electrostatic Charging Hazard – Clean only with a damp cloth"



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

<b>Project</b>	<b>Date</b>	<b>Description</b>
80156242	February 15, 2023	Update to report to cover minor corrections on Component list AA0204R1B-PLC
70207912	March 06, 2019	Update to report to cover corrections to Products section.
70173404	March 06, 2018	Update to correct omission of Varta type 6122 Lithium-Manganese cell, introduced in Edition 2, in the Certificate Record and the 'PRODUCTS' section of the certificate.
2568209	October 19, 2012	Update to cover: addition of alternative battery (Varta Type 6122); change in dust temperature marking from 74 Deg. C to 135 Deg. C; update to latest versions of CSA Zone Standards.
2447514	September 28, 2011	Original Certification of Bond-Rite REMOTE Static Earthing System to CSA and US Standards.