Certificate of Compliance

Certificate: 2447514 **Master Contract:** 220734

Project: 70207912 **Date Issued:** March 06, 2019

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

C US

Issued by: Sripriya Kalyanasundaram

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 parameters of: Vmax/Ui = 9.0 V, Imax/Ii = n/a, Pi = n/a, Ci = 0, Li= 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: Voc/Uo = 11.1 V, Isc/Io = 143 mA, Po = 260 mW, Ca/Co = 0.9 µF, La/Lo = 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: Voc/Uo = 11.1 V, Isc/Io = 143 mA, Po = 260 mW, Ca/Co = 0.9 µF, La/Lo = 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: Vmax/Ui = 9.0 V, Imax/Ii = n/a, Pi = n/a, Ci = 0, Li= 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: Voc/Uo = 11.1 V, Isc/Io = 143 mA, Po = 260 mW, Ca/Co = 0.9 µF, La/Lo = 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: Voc/Uo = 11.1 V, Isc/Io = 143 mA, Po = 260 mW, Ca/Co = 0.9 µF, La/Lo = 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.

APPLICABLE REQUIREMENTS

C22.2 No. 0-10	-	General Requirements – Canadian Electrical Code, Part II
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-C22.2 No. 60529:05	-	Degrees of protection provided by enclosures (IP Code)
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 (11th Ed.)	-	Enclosures for Electrical Equipment
UL 746C (6th Ed.)	-	Polymeric Materials – Use in Electrical Equipment Evaluations
UL 913 (7th Ed.)	-	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations
UL 916 (4th 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/IEC 60529:2004	-	Degrees of Protection Provided by Enclosures (IP Code)
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”

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"