



# Certificate of Compliance

**Certificate:** 1843969

**Master Contract:** 179806

**Project:** 80040889

**Date Issued:** 2020-05-13

**Issued To:** Bristol, Inc. dba Remote Automation Solutions  
1100 Buckingham St  
Watertown, Connecticut, 06795  
United States

**Attention:** Tammie Anderson

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



**Issued by:** Hossein Saleh  
Hossein Saleh

## PRODUCTS

**CLASS 22 5802** - PROCESS CONTROL EQUIPMENT For Hazardous Locations

**CLASS 22 5882** - PROCESS CONTROL EQUIPMENT For Hazardous Locations - Certified to US Standards

### **Class I, Div. 2, Groups A, B, C, D:**

- FB107 Series, Remote Operations Controller, Model W40155, rated 8 to 30Vdc, 33W max., temp code T4, amb. range -40C to +75C. For use with the following modules: CPU (isolated), p/n W40159X0012; CPU (non-isolated), p/n W40159X0022; CPU with I/O (isolated), p/n W40159X0032; CPU with I/O (non-isolated), p/n W40159X0042; RS232, p/n W30381X0012; RS485, p/n W30381X0022; MVS, p/n W30381X0032; RS-485 Based Application, p/n W30381X0042; RS-485 Based Application, p/n W30381X1YY2 (YY represents digits 01-99 based on software loaded); Six-point I/O, p/n W30382X0012; 8 AI/DI, p/n W30382X0022; 6 DO, p/n W30382X0032; expansion rack, p/n W40160X0012; 6 AO/DO, p/n W30382X0042; ECM, W30398X0012; HART, W30395X0012; RTD W30382X0052; Modem, p/n W30381X0052; Network Radio Module (no encryption) p/n 397204-01-9, Network Radio Module (128 bit encryption) p/n 397204-02-7, Network Radio



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Module (256 bit encryption) p/n 397204-03-5 and IEC62591 Interface (WiHART), p/n W30381X0072. Device is for mounting in suitable enclosures where the final assembly is subject to acceptance of CSA or the inspection authority having jurisdiction.

- Touchscreen Display, Model W40167, rated 8-30 Vdc, 1 W, amb. range -20C to +70C. Display is for mounting in suitable panels or enclosures subject to acceptance of CSA or the inspection authority having jurisdiction and is rated as CSA Enc. Type 4 when installed per installation instruction A6236.

- Model W40168 Enclosure (CSA Type 4) and Model W40184 Enclosure (CSA Type 4X); for use with Model W40155 Remote Operations Controller electronics and optional Touchscreen Display, Model W40167. Assembly to be installed per installation instruction A6236.

- Remote Operations Controller, Model W40168, rated 8 to 30Vdc, 33W max., temp code T4, amb. range -40C to +75C (-20C to +70C for optional Touchscreen Display). Consists of Model W40155 Remote Operations Controller and optional Model W40167 Touchscreen Display installed in Model W40168 Enclosure (CSA Enclosure Type 4); -40 Deg. C  $\leq$  Process Temp.  $\leq$  +100°C; MWP 3626 psi; Single Seal (with integral 1S Series Sensor option installed).

- Remote Operations Controller, Model W40184, rated 8 to 30Vdc, 33W max., temp code T4, amb. range -40C to +75C (-20C to +70C for optional Touchscreen Display). Consists of Model W40155 Remote Operations Controller and optional Model W40167 Touchscreen Display installed in Model W40184 Enclosure (CSA Enclosure Type 4X); -40 Deg. C  $\leq$  Process Temp.  $\leq$  +100°C; MWP 3626 psi; Single Seal (with integral 1S Series Sensor option installed).

### **APPLICABLE REQUIREMENTS**

CAN/CSA C22.2 No. 0-M91 (R2001) -	General Requirements - Canadian Electrical Code, Part II
CAN/CSA C22.2 No. 94-M91 -	Special Purpose Enclosures
CSA Std C22.2 No 142-M1987 -	Process Control Equipment
CSA Std C22.2 No 213-M1987 -	Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
UL 50, Sept. 4, 2007 -	Enclosures for Electrical Equipment
UL Std. No. 508 (17th Ed.) -	Standard for Industrial Control Equipment
UL Std. No 1604, April 28, 1994 -	Electrical Equipment for Use in Class I and Class II, Division 2 and Class III, Hazardous (Classified) Locations
ANSI/ISA 12.27.01-2003 -	Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids



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## **MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed 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 U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

### **Nameplate adhesive label material approval information:**

Refer to Descriptive Documents Package (Dwg W40155, W40167, W40168 and W40184) for marking details.

*Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".*



## 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

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Project	Date	Description
80040889	2020-05-13	Update to Report 1843969 to revise drawing W40155 and to add existing Factory (F13) 6004340 to the report.
000070205876	2019-01-14	Update to report 1843969 to change the gasket material.
000070036639	2016-01-14	Update to Report 1843969 to include two different part numbers for the Network Radio Module.
0002734827	2014-06-23	Update report 1843969 to replace a connector part of the W48098 assembly.
0002642427	2013-12-19	Update report 1843969 to include revised drawings, per client request and FIR dt. May 21, 2013 at FC 218181, Introduction of a series of software that are running RS - 485 BASED Application & SPCL APPL MODULES for various models
0002567688	2013-01-21	Update to report 1843969 to include the addition of a new Network Radio Module and minor drawing changes
0002471546	2011-12-07	Update to report 1843969 to add a new IEC62591 Interface (WiHART), p/n W30381X0072 and revised drawings.
0002411686	2011-05-11	Update to report 1843969 to add an alternative Touchscreen Display assembly and housing gasket to the W40167, revise electrical ratings on W40155, W40168 and W40184. Also minor revisions and document changes.
0002162415	2009-06-23	Update of report 1843969 to add additional modules to Model W40155 and single seal markings to Models W40168 and W40184.
0002036969	2008-06-24	Update to include W40184 enclosure type 4x and 3 additional I/O Modules.
0001947049	2007-10-11	Addition of optional assembly and LCD
0001843969	2006-11-13	Original Certification