



# Certificate of Compliance

**Certificate:** 1843969 (083777\_0\_000)

**Master Contract:** 179806

**Project:** 70036639

**Date Issued:** 2016-01-14

**Issued to:** Bristol, Inc. dba Remote Automation Solutions  
1100 Buckingham St  
Watertown, Connecticut 06795  
USA

**Attention:** Jeff McGaughey

*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:** Sorin Tat  
Sorin Tat

## **PRODUCTS**

CLASS - C225802 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-

CLASS - C225882 - 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 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.



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- 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



## *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>
70036639	2016-01-14	Update to Report 1843969 to include two different part numbers for the Network Radio Module.
2734827	2014-06-23	Update report 1843969 to replace a connector part of the W48098 assembly.
2642427	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
2567688	2013-01-21	Update to report 1843969 to include the addition of a new Network Radio Module and minor drawing changes
2471546	2011-12-07	Update to report 1843969 to add a new IEC62591 Interface (WiHART), p/n W30381X0072 and revised drawings.
2411686	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.
2162415	2009-06-23	Update of report 1843969 to add additional modules to Model W40155 and single seal markings to Models W40168 and W40184.
2036969	2008-06-24	Update to include W40184 enclosure type 4x and 3 additional I/O Modules.
1947049	2007-10-11	Addition of optional assembly and LCD
1843969	2006-11-13	Original Certification