



Member of the FM Global Group

FM Approvals  
1151 Boston Providence Turnpike  
P.O. Box 9102 Norwood, MA 02062 USA  
T: 781 762 4300 F: 781-762-9375 www.fmapprovals.com

# CERTIFICATE OF COMPLIANCE

## HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

### **110101-bcde. BULLET® WirelessHART® Adaptor.**

IS/I,II,III/1/ABCDEFGH/T5 Ta = -40°C to 85°C; T6 Ta = -40°C to 75°C – AT1101010C; Entity;  
NI/I/2/ABCD/T5 Ta = -40°C to 85°C; T6 Ta = -40°C to 75°C;  
DIP/II,III/2/EFG/T5 Ta = -40°C to 85°C; T6 Ta = -40°C to 75°C;  
I/0/Ex ia/IIC/T5 Ta = -40°C to 85°C; T6 Ta = -40°C to 75°C – AT1101010C; Entity;  
I/2/Ex nA nC/IIC/T5 Ta = -40°C to 85°C; T6 Ta = -40°C to 75°C;  
Class II, Division 1, Groups E, F and G; Ta = -40°C to 85°C  
IP68; Type 6P

Entity Parameters:

Ui = 30V, Ii = 120mA, Pi = 0.9W, Ci = 0, Li = 595.96µH.

b = Multidrop devices: 0, 2, 8, or P.

c = Housing Material: 0

d = Label Marking: 0, 1, S or M.

e = Special Models: 0

*Special Conditions of use:*

1. For Division 1 or Zone 0 installation only, the equipment contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact and friction.
2. Using the box provided on the nameplate, the user shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.

### **110103-bcde. BULLET® WirelessHART® Adaptor.**

IS/I,II,III/1/ABCDEFGH/T5 Ta = -40°C to 85°C; T6 Ta = -40°C to 75°C – AT1101010C; Entity;  
NI/I/2/ABCD/T5 Ta = -40°C to 85°C; T6 Ta = -40°C to 75°C;  
DIP/II,III/2/EFG/T5 Ta = -40°C to 85°C; T6 Ta = -40°C to 75°C;  
I/0/Ex ia/IIC/T5 Ta = -40°C to 85°C; T6 Ta = -40°C to 75°C – AT1101010C; Entity;  
I/2/Ex nA nC/IIC/T5 Ta = -40°C to 85°C; T6 Ta = -40°C to 75°C;  
Class II, Division 1, Groups E, F and G; Ta = -40°C to 85°C

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)  
FM Approvals HLC 5/13 3040786C

IP68; Type 6P

Entity Parameters:

U<sub>i</sub> = 30V, I<sub>i</sub> = 120mA, P<sub>i</sub> = 0.9W, C<sub>i</sub> = 0, L<sub>i</sub> = 595.96μH.

b = Multidrop devices: 0, 2, 8, or P.

c = Housing Material: 0

d = Label Marking: 0, 1, S, or M.

e = Special Models: 0

*Special Conditions of use:*

- 1. For Division 1 or Zone 0 installation only, the equipment contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact and friction.*
- 2. Using the box provided on the nameplate, the user shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.*
- 3. The flying leads of the apparatus shall be suitably protected against mechanical damage and terminated within an NRTL Approved, Listed or Recognized terminal or junction facility suitable for the location and conditions of use.*
- 4. The Class I, Zone 1 Ex d IIC configuration requires the use of an NRTL Approved, Listed or Recognized cable seal, suitable for the location and conditions of use, installed at the apparatus and prior to the terminal or junction facility.*

Equipment Ratings:

**110101-bcde. BULLET® WirelessHART® Adaptor.**

Intrinsically Safe (Entity) for use in Class I, II, and III, Division 1, Groups A, B, C, D, E, F, and G; Temperature Class T5 Ta = -40°C to +85°C; Temperature Class T6 Ta = -40°C to +75°C; in accordance with Control Drawing No. AT1101010C; Suitable for use in Class I, Division 2, Group A, B, C, and D; Temperature Class T5 Ta = -40°C to +85°C; Temperature Class T6 Ta = -40°C to +75°C; Suitable for use in Class II and III, Division 2, Groups E, F, and G; Temperature Class T5 Ta = -40°C to +85°C; Temperature Class T6 Ta = -40°C to +75°C; Intrinsically Safe (Entity) for use in Class I, Zone 0, Ex ia IIC T5 Ta = -40°C to +85°C; T6 Ta = -40°C to +75°C; in accordance with Control Drawing No. AT1101010C; Class I, Zone 2, Ex nA nC IIC T5 Ta = -40°C to +85°C; T6 Ta = -40°C to +75°C; Class II, Division 1, Groups E, F, and G; Ta = -40°C to 85°C; indoors and outdoors.

**110103-bcde. BULLET® WirelessHART® Adaptor.**

Intrinsically Safe (Entity) for use in Class I, II, and III, Division 1, Groups A, B, C, D, E, F, and G; Temperature Class T5 Ta = -40°C to +85°C; Temperature Class T6 Ta = -40°C to +75°C; in accordance with Control Drawing No. AT1101010C; Suitable for use in Class I, Division 2, Group A, B, C, and D; Temperature Class T5 Ta = -40°C to +85°C; Temperature Class T6 Ta = -40°C to +75°C; Suitable for use in Class II and III, Division 2, Groups E, F, and G; Temperature Class T5 Ta = -40°C to +85°C; Temperature Class T6 Ta = -40°C to +75°C; Intrinsically Safe (Entity) for use in Class I, Zone 0, Ex ia IIC T5 Ta = -40°C to +85°C; T6 Ta = -40°C to +75°C; in accordance with Control Drawing No. AT1101010C; Class I, Zone 2, Ex nA nC IIC T5 Ta = -40°C to +85°C; T6 Ta = -40°C to +75°C; Class II, Division 1, Groups E, F, and G; Ta = -40°C to 85°C; indoors and outdoors, Explosionproof for Class I, Division 1, Groups A, B, C and D; Flameproof for Class I, Zone 1 Ex d IIC T5, T6 Gb; and Dust-ignitionproof for Class II, III, Division 1, Groups E, F, & G hazardous locations, indoors and outdoors, Temperature Class T5 Ta = -40°C to +85°C, T6 Ta = -40°C to +75°C, Type 6P; IP68; Hazardous Locations.



Member of the FM Global Group

**110100-bcde. BULLET® WirelessHART® Adaptor.**

IP68; Type 6P

b = Multidrop devices: 0, 2, 8, or P.

c = Housing Material: 0

d = Label Marking: 0 for MACTek, 1 for Reseller #1, S for Reseller #2, M for Reseller #3

e = Special Models: 0.

**Equipment Ratings:**

Ordinary Locations: Electrical Ratings. 7-32V and 3.2-25mA

Indoor and outdoor, NEMA Type 6P; Type of Protection IP68

**FM Approved for:**

MACTek Corporation

Gates Mills, OH 44040 USA



Member of the FM Global Group

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

CSA-C22.2 No.157-92	1992 (Reaffirmed 2012)
CSA C22.2 No. 213-M1987	1987 (Reaffirmed 2013)
CSA-C22.2 No. 25-1966	1966 (Reaffirmed 2009)
CSA-C22.2 No. 1010.1	Reaffirmed 2009
CSA-C22.2 No. 0.4	Reaffirmed 2009
CSA-C22.2 No. 0.5	Reaffirmed 2008
CSA-C22.2 No. 30	Reaffirmed 2007
CAN CSA-C22.2 No. 94	Reaffirmed 2011
CAN/CSA E60079-0	2011
CAN/CSA E60079-1	2007
CAN/CSA E60079-11	2014
CAN/CSA E60079-15	2012
CAN/CSA 60079-31	2012
CAN/CSA-C22.2 No. 60529	2005

Original Project ID: 3040786C

Approval Granted: December 23, 2011

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
120504	June 12, 2012		
121029	December 5, 2012		
3050586	September 17, 2014		

FM Approvals LLC

J.E. Marquedant  
Manager, Electrical Systems

17 September 2014

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)