



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 (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

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;

S/II,III/2/EFG/T5 Ta = -40°C to +85°C; T6 Ta = -40°C to +75°C;

I/O/AEx ia/IIC/T5 Ta = -40°C to +85°C; T6 Ta = -40°C to +75°C – AT1101010C; Entity;

20/AEx iaD/T95°C; Ta = -40°C to +85°C; – AT1101010C; Entity;

I/2/AEx nA nC/IIC/T5 Ta = -40°C to +85°C; T6 Ta = -40°C to +75°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;

S/II,III/2/EFG/T5 Ta = -40°C to +85°C; T6 Ta = -40°C to +75°C;

I/O/AEx ia/IIC/T5 Ta = -40°C to +85°C; T6 Ta = -40°C to +75°C – AT1101010C; Entity;

20/AEx iaD/T95°C; Ta = -40°C to +85°C; – AT1101010C; Entity;

I/2/AEx nA nC/IIC/T5 Ta = -40°C to +85°C; T6 Ta = -40°C to +75°C

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 AEx 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.**

Class I, II and III, Division 1, Groups A, B, C, D, E, F and G; Temperature Class T5 Tamb = -40°C to +85°C; Temperature Class T6 Tamb = -40°C to +75°C; in accordance with Control Drawing No. AT1101010C; Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; Temperature Class T5 Tamb = -40°C to +85°C; Temperature Class T6 Tamb = -40°C to +75°C; Suitable for use in Class II and III, Division 2, Groups E, F and G; Temperature Class T5 Tamb = -40°C to +85°C; Temperature Class T6 Tamb = -40°C to +75°C; Intrinsically safe (Entity) for use in Class I, Zone 0, AEx ia IIC T5 Tamb = -40°C to +85°C; T6 Tamb = -40°C to +75°C; in accordance with Control Drawing No. AT1101010C; Intrinsically Safe (Entity) for use in Zone 20, AEx iaD IP68 T95°C in accordance with Control Drawing No. AT1101010C; Class I, Zone 2, AEx nA nC IIC T5 Tamb = -40°C to +85°C; T6 Tamb = -40°C to +75°C; indoor and outdoor, NEMA Type 6P; Type of Protection IP68; Hazardous (Classified) Locations.

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

Class I, II and III, Division 1, Groups A, B, C, D, E, F and G; Temperature Class T5 Tamb = -40°C to +85°C; Temperature Class T6 Tamb = -40°C to +75°C; in accordance with Control Drawing No. AT1101010C; Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; Temperature Class T5 Tamb = -40°C to +85°C; Temperature Class T6 Tamb = -40°C to +75°C; Suitable for use in Class II and III, Division 2, Groups E, F and G; Temperature Class T5 Tamb = -40°C to +85°C; Temperature Class T6 Tamb = -40°C to +75°C; Intrinsically safe (Entity) for use in Class I, Zone 0, AEx ia IIC T5 Tamb = -40°C to +85°C; T6 Tamb = -40°C to +75°C; in accordance with Control Drawing No. AT1101010C; Intrinsically Safe (Entity) for use in Zone 20, AEx iaD IP68 T95°C in accordance with Control Drawing No. AT1101010C; Class I, Zone 2, AEx nA nC IIC T5 Tamb = -40°C to +85°C; T6 Tamb = -40°C to +75°C; indoor and outdoor, Explosionproof for Class I, Division 1, Groups A, B, C and D; Flameproof for Class I, Zone 1, AEx d IIC T5, T6; Dust-ignitionproof for Class II, III, Division 1, Groups E, F, & G; and Zone 21, AEx tb IIIC T95°C hazardous (classified) locations, indoors and outdoors. T5 Ta = -40°C to +85°C; T6 Ta = -40°C to +75°C; NEMA Type 6P; Type of Protection IP68; Hazardous (Classified) Locations.

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

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



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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



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

Class 3600	2011
Class 3610	2010
Class 3611	2004
Class 3615	2006
Class 3616	2011
Class 3810	2005
ANSI/ISA 60079-0	2013
ANSI/ISA-60079-1	2009
ANSI/ISA-60079-11	2014
ANSI/ISA-60079-15	2012
ANSI/ISA-60079-31	2013
ANSI/NEMA 250	2003
ANSI/IEC 60529	2004

Original Project ID: 3040786

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