Certificate of Compliance

Certificate: 70009242 (221421) **Master Contract:** 221421

Project: 70040709 **Date Issued:** 2015-11-20

Issued to: **Connection Technology Center, Inc.**
7939 Rae Boulevard
Victor, NY 14564
USA

Attention: Colin Walker

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: *Nicholas Cameron*
Nicholas Cameron

PRODUCTS
CLASS - C225802 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-
CLASS - C225882 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations - Certified to US Standards

Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; T3C

Ex nA IIC T3 Gc
Class I, Zone 2, AEx nA IIC T3 Gc

Transducer Sensor – AC9** Series – Temperature Code T3/T3C; ambient temperature range -40ºC to +121ºC
Transducer Sensor – TA9** Series – Temperature Code T3/T3C; ambient temperature range -40ºC to +121ºC

Electrical Ratings are: Ui = 28VDC, Ii = 120mA, Pi = 100mW, Ci = 0nF, Li = 51µH

Condition of Certification:

i. Class I, Division 2 / Zone 2 when installed using an approved Zone 2 / Division 2 rated cable in accordance with the CEC or the NEC.
ii. Suitability of final installation is to be determined by the authority having local jurisdiction.

Note: Asterisks "**" denotes alpha-numeric characteristic denoting mounting configurations, connector types or approval agencies per drawings INS10038.

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CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations
CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations - CERTIFIED TO US STANDARDS

Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; T3/T4
Ex ia IIC T3/T4 Ga
Class I, Zone 0, AEx ia IIC T3/T4 Ga

Transducer Sensor – AC9** Series – Temperature Code T4; ambient temperature range -40ºC to +80ºC
Transducer Sensor – AC9** Series – Temperature Code T3; ambient temperature range -40ºC to +121ºC
Transducer Sensor – TA9** Series – Temperature Code T3; ambient temperature range -40ºC to +121ºC

For the AC9** Series:

When not provided with Integral Cable:

- Intrinsically safe with Entity Parameters – Ui = 28VDC, Ii = 120mA, Pi = 1W, Ci = 63.036nF, Li = 0µH

When provided with a maximum of 200 feet (61m) of Integral Cable:

- Intrinsically safe with Entity Parameters – Ui = 28VDC, Ii = 120mA, Pi = 1W, Ci = 72.836nF, Li = 42µH

For the TA9** Series:

When not provided with Integral Cable:

- Intrinsically safe with Entity Parameters – Ui = 28VDC, Ii = 120mA, Pi = 1W, Ci = 1.5nF, Li = 0µH

When provided with a maximum of 1600 feet (488m) of Integral Cable:

- Intrinsically safe with Entity Parameters – Ui = 28VDC, Ii = 120mA, Pi = 1W, Ci = 80.2nF, Li = 336µH

Note: Asterisks "**" denotes alpha-numeric characteristic denoting mounting configurations, connector types or approval agencies per drawings INS10038. AC Series has 1, 2, and 3 channel options and the TA Series uses 2 channel options. 1st channel uses a 1 channel barrier, 2nd channel uses the second channel barrier, and 3rd channel sensor uses 1 of each.

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APPLICABLE REQUIREMENTS

CSA C22.2 No. 0-10	- General Requirements - Canadian Electrical Code Part II
CSA C22.2 No. 94-M1991 (R2011)	- Special Purpose Enclosures
CSA C22.2 No. 142-M1987 (R2014)	- Process Control Equipment
CSA C22.2 No. 213-M1987 (R2013)	- Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CAN/CSA C22.2 No. 60079-0-11	- Electrical apparatus for explosive gas atmospheres; Part 0: General requirements
CAN/CSA C22.2 No. 60079-11-14	- Electrical apparatus for explosive gas atmospheres; Part 11: Intrinsic safety "i"
CAN/CSA C22.2 No. 60079-15:12	- Part 15: Equipment Protection by Type of protection "n"
UL Standard 50, Eleventh Edition	- Enclosures for Electrical Equipment
UL Standard 508, Seventeenth Edition	- Industrial Control Equipment
UL Standard 913, Eighth Edition	- Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations.
UL Standard 60079-0, 6th Edition	- Part 0: General Requirements
UL Standard 60079-11, 6th Edition	- Electrical apparatus for explosive gas atmospheres; Part 11: Intrinsic safety "i"
UL Standard 60079-15, 4th Edition	- Part 15: Equipment Protection by Type of Protection "n"
ANSI/ISA–12.12.01-2013	- Non-Incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

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

Project	Date	Description
70040709	2015-11-20	Update to report 70009242 to have the entity parameter for current increased to 120mA from 100mA.
70009242	2015-05-04	New Certification of Sensors, Models ACXXX Series and TAXXX Series as IS for C1D1, C1D2 Groups ABCD, Class II and Class III and Ex nA IIC and Ex ia IIC for Zones.