Certificate of Compliance

Certificate: 2349308 **Master Contract:** 155560

Project: 2468902 **Date Issued:** April 15, 2013

Issued to: **Rosemount Analytical Inc.**

Uniloc Division
2400 Barranca Pky
Irvine, CA 92606
USA
Attention: Dana Crowley

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.

Chris Burchett

Issued by: Chris Burchett

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

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 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 ABCD;

Class II, Division 1, Groups EFG;

Class III:

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Model 1066-AA-BB-69 process transmitter; Tamb: -20 to 65ºC; Temperature Code T4; Enclosure Type 4X, IP66; Intrinsically safe when installed in accordance with installation drawing 1400669 with the following Entity Parameters

POWER INPUT

HART with ANALOG (HT) and ANALOG only (AN)	FOUNDATION FIELDBUS (FF)	FISCO FIELDBUS (FI)
Vmax: 30V	Vmax: 30V	Vmax: 17.5V
Imax: 200mA	Imax: 300mA	Imax: 380mA
Pmax: 0.9W	Pmax: 1.3W	Pmax: 5.32W
Ci: 0uF	Ci: 0uF	Ci: 0uF
Li: 0uH	Li: 0uH	Li: 0uH

Where: AA = P (pH/ORP), CL (chlorine), DO (dissolved oxygen), OZ (ozone), C (Contacting Conductivity) or T (Toroidal Conductivity)

BB = HT (HART & analog output), AN (Analog output only), FF (Fieldbus) or FI (FISCO)

Note: AN version is the same hardware as HT, but HART is disabled in software.

For AA options P, Cl, DO and OZ:

OUTPUT: Voc = 11.88V, Isc = 153.4mA, Pmax = 231mW, Ca = 1.44uF (Groups A, B); 9.39uF (Groups C); 38.5uF (Group D), La = 1.51mH (Groups A, B); 6.04mH (Group C); 12.08mH (Group D)

For AA options C and T:

OUTPUT: Voc = 4.75V, Isc = 676.93mA, Pmax = 258mW Certified as a system for use with the following sensors: Models 140, 141, 142, 150, 400, 400VP, 401, 402, 402VP, 403, 403VP, 404 & 410VP contacting conductivity sensors, or any simple apparatus with < 200 feet of cable or Models 222, 225, 226 & 228 toroidal conductivity sensors.

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

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CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class I, Division 2, Groups ABCD;

Class II, Division 1, Groups EFG;

Class II, Division 2, Groups FG;

Class III:

Model 1066-AA-BB-69 process transmitter; Rated 12.5 to 42.4Vdc, 0.4W (HT/AN); 9 to 17.5Vdc, 18mA (FI); 9-32Vdc, 18mA (FF); Tamb: -20 to 65ºC; Temperature Code T4; Enclosure Type 4X, IP66.

Where: AA = P (pH/ORP), CL (chlorine), DO (dissolved oxygen), OZ (ozone), C (Contacting Conductivity) or T (Toroidal Conductivity)

BB = HT (HART & analog output), AN (Analog output only), FF (Fieldbus) or FI (FISCO)

Note: AN version is the same hardware as HT, but HART is disabled in software.

Nonincendive field wiring when installed in accordance with drawing 1400669

For AA options P, Cl, DO and OZ:

Sensors may be any simple apparatus complying with IEC 60079-11 or conform to the following entity parameters: OUTPUT Voc = 11.88V, Isc = 153.4mA, Pmax = 231mW, Ca = 1.44uF (Groups A, B); 9.39uF (Groups C); 38.5uF (Group D), La = 1.51mH (Groups A, B); 6.04mH (Group C); 12.08mH (Group D)

For AA options C and T:

OUTPUT: Voc = 4.75V, Isc = 676.93mA, Pmax = 258mW Certified as a system for use with the following sensors: Models 140, 141, 142, 150, 400, 400VP, 401, 402, 402VP, 403, 403VP, 404 & 410VP contacting conductivity sensors, or any simple apparatus complying with IEC 60079-11: with < 200 feet of cable or Models 222, 225, 226 & 228 toroidal conductivity sensors.

APPLICABLE REQUIREMENTS

CSA Standard

Certificate:	2349308	**Master Contract:**	155560
Project:	2468902	**Date Issued:**	April 15, 2013

C22.2 No 0 - 10 - General Requirements - Canadian Electrical Code Part II.

C22.2 No 0.4 - 04 - Bonding of Electrical Equipment

C22.2 No. 25-M1966 - Enclosures for Use in Class II Groups E, F and G Hazardous Locations

C22.2 No. 94-M91 - Special Purpose Enclosures

C22.2 No.142-M1987 – Process Control Equipment

C22.2 No. 157-M1992 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

C22.2 No. 60529:05 - Degrees of protection provided by enclosures (IP Code)

UL Standards:

50, Eleventh Edition - Enclosures for Electrical Equipment

508, Seventeenth Edition – Industrial Control Equipment

913, Seventh Edition - Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations

1203, Fourth Edition – Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations

ANSI/ISA Standard:

12.12.01–2011 – Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations