CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1132747 (LR 34186) **Master Contract:** 155560

Project: 1571425 **Date Issued:** 2004/09/28

Issued to: **Rosemount Analytical Inc.**

Uniloc Division
2400 Barranca Pky
Irvine, CA 92606
USA
Attention: Jerry Flock

The products listed below are eligible to bear the CSA Mark shown

Issued by: Bill Giesbrecht

Authorized by: Patricia Pasemko, Operations Manager

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations
CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class I, Groups A, B, C and D;

Class II, Groups E, F and G;

Class III:

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Models 3081C, 3801T and 3081 pH/ORP, 2-wire transmitter, rated 42-42.5V dc max, output 4-20mA, CSA Enclosure Type 4; Maximum ambient 65°C. Seal required at each conduit entry (for explosion-proof only).

Model 5081-T-HT, Model 5081-A-HT, Model 5081-P-HT, Model 5081-C-HT and Model 5081-G-HT 2-wire Transmitter, rated 42-42.5V dc, output 4-20mA; CSA Enclosure Type 4X; Temp code T6; Maximum ambient 70°C. Seal required at each conduit entry (for explosion-proof only).

Model 5081-T-FF, Model 5081-A-FF, Model 5081-P-FF, Model 5081-C-FF and Model 5081-G-FF 2-wire Transmitter, rated 42-42.5V dc, output 4-20mA; CSA Enclosure Type 4 X; Temp code T6; Maximum ambient 70°C. Seal required at each conduit entry (for explosion-proof only).

Model 5081-A-FI, Model 5081-P-FI, Model 5081-C-FI and Model 5081-T-FI, 2-wire Transmitter, rated 9-17.5Vdc max., output 4-20mA; Temp code T4/T3A; Maximum ambient 70°C; CSA Enclosure Type 4X. Seal required at each conduit entry (for explosion-proof only).

Class I, Div. 2, Groups A, B, C and D:

Models 3081 pH/ORP and 3081FG, 2-wire transmitter, rated 42.5V dc max, output 4-20mA, Temp code T3A, Maximum ambient 70°C, CSA Enclosure Type 4.

Class I, Div. 2, Groups A, B, C and D;

Class II, Div. 2, Groups F and G;

Class III:

Models 3081C and 3081T analyzer, rated input 42.5Vdc, output 4-20mA, Temp code T3A, Maximum ambient 70°C; CSA Enclosure Type 4.

Model 5081-T-HT, Model 5081-A-HT, Model 5081-P-HT, Model 5081-C-HT and Model 5081-G-HT 2-wire Transmitter, rated 42-42.5Vdc, output 4-20mA; CSA Enclosure Type 4X; Temp code T4; Maximum ambient 70°C.

Model 5081-T-FF, Model 5081-A-FF, Model 5081-P-FF, Model 5081-C-FF and Model 5081-G-FF 2-wire Transmitter, rated 42-42.5Vdc, output 4-20mA; CSA Enclosure Type 4X; Temp code T4; Maximum ambient 70°C.

Model 5081-A-FI, Model 5081-P-FI, Model 5081-C-FI and Model 5081-T-FI, 2-wire Transmitter, rated 9-17.5Vdc max., output 4-20mA; Temp code T4/T3A; Maximum ambient 70°C; CSA Enclosure Type 4X.

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

Class I, Groups A, B, C and D;

Class II, Groups E, F and G;

Class III:

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Certificate:	1132747 (LR 34186)	**Master Contract:**	155560
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Models 3081 pH/ORP and 3081FG Analyzer, rated input 42.5Vdc, output 4-20mA. Entity Parameters: Vmax = 30 Vdc, Imax = 300mA, Ci = 0.008 uF, Li = 0. Intrinsically safe when connected per installation instruction No 1400172 and 1400183. Temp code T3A. Maximum ambient 70°C. CSA Enclosure Type 4.

Models 3081C and 3081T Analyzer, rated input 42.5Vdc, output 4-20mA. Entity Parameters: Vmax = 30 Vdc,

Imax = 300mA, Ci = 0.01 uF, Li = 0. Intrinsically safe when connected per installation instruction No 1400173 and 1400181. Temp code T3A. Maximum ambient 70°C. Encl. 4.

Model 5081-A-HT, Model 5081-P-HT and Model 5081-C-HT, 2-wire Transmitter, rated 42-42.5Vdc, output 4-20mA; Entity Parameters: Vmax =30V, Imax = 200mA, Pmax = 0.9W, Ci = 27.8nF, Li = 0mH; Intrinsically safe when connected per installation instruction No. 1400197, 1400201 and 1400205 respectively; Temp code T4; Maximum ambient 70°C; CSA Enclosure Type 4X.

Model 5081-A-FF, Model 5081-P-FF and Model 5081-C-FF, 2-wire Transmitter, rated 42-42.5Vdc, output 4-20mA; Entity Parameters: Vmax =30V, Imax = 300mA, Pmax = 1.3W, Ci = 27.8nF, Li = 0mH; Intrinsically safe when connected per installation instruction No.1400198, 1400202 and 1400206 respectively; Temp code T4; Maximum ambient 70°C; CSA Enclosure Type 4X.

Model 5081-A-FI, Model 5081-P-FI, Model 5081-C-FI and Model 5081-T-FI, 2-wire Transmitter, rated 9-17.5Vdc max., output 4-20mA; Entity Parameters: Vmax =17.5V, Imax = 380mA, Pmax = 5.32W, Ci = 27.8nF, Li = 0mH; Intrinsically safe when connected per installation instruction No.1400294, 1400288, 1400290 and 1400285 respectively; Temp code T4/T3A; Maximum ambient 70°C; CSA Enclosure Type 4X.

Model 5081-T-HT, 2-wire Transmitter, rated 42-42.5Vdc, output 4-20mA; Entity Parameters: Vmax =30V, Imax = 200mA, Pmax = 0.9W, Ci = 27.8nF, Li = 0mH; Intrinsically safe when connected per installation instruction No. 1400209 and 1700462; Temp code T4; Maximum ambient 70°C; CSA Enclosure Type 4X.

Model 5081-T-FF, rated 42-42.5Vdc, output 4-20mA; Entity Parameters: Vmax =30V, Imax = 300mA, Pmax = 1.3W, Ci = 517pF, Li = 0mH; Intrinsically safe when connected per installation instruction No.1400210 and 1400206 and 1700462; Temp code T4; Maximum ambient 70°C; CSA Enclosure Type 4X

Model 5081-G-HT, 2-wire Transmitter, rated 42-42.5Vdc, output 4-20mA; Entity Parameters: Vmax =30V, Imax = 200mA, Pmax = 0.9W, Ci = 27.9nF, Li = 0mH; Intrinsically safe when connected per installation instruction No. 1400229; Temp code T4; Maximum ambient 70°C; CSA Enclosure Type 4X.

Model 5081-G-FF, 2-wire Transmitter, rated 42-42.5Vdc, output 4-20mA; Entity Parameters: Vmax =30V, Imax = 300mA, Pmax = 1.3W, Ci = 564F, Li = 0mH; Intrinsically safe when connected per installation instruction No. 1400230; Temp code T4; Maximum ambient 70°C; CSA Enclosure Type 4X.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 0-M1987 - General Requirement - Canadian Electrical Code Part: II

CSA Std C22.2 No. 25-1966 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations

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CSA Std C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

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

CSA Std C22.2 No. 142-M1987 - Process Control Equipment.

CSA Std C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

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

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Supplement to Certificate of Compliance

Certificate: 1132747 **Master Contract:** 155560

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
1571425	2004/09/28	Update Report 1132747 to replace CPU and fieldbus cards, add "FISCO" power option, testing witnessed by FM and accepted by CSA
1473463	2004/04/19	Update to Report 1132747 - Addition of Models 5081-G-HT & 5081-G-FF Series, 2-wire Transmitters.
1469550	2003/09/30	Update to Report 1132747 to add Model 5081T series, 2-wire transmitters

History

-51 March 10/99 Addition of model 3081C (for I.S. use and use in Div. 2)

-82 Feb. 9/98 Transfer Report From LR 34186-28 (Sub-Report LR 55236-9) Into LR 34186-82 and Update Report With Latest Revisions.

-85 June 10/98 Certification of 3081pH/ORP for use in Div. 2 and Intrinsically safe.

-86 Aug. 13/98 Addition of model 3801T Transmitter for explosion-proof.

-100 May 14/99 Certification of Model 3081T for I.S. and Div. 2 use.

-104 May 14/99 Certification of Model 3081FG.

1132747 Oct. 11/00 Update to report to include use of alternate analog pcb for transmitter 3081pH and other minor alternations.

1186166 May 9, 2001 Update report to cover drawing revision.

1258602 Dec. 20/01 Update report to cover drawing revision.

1287074 Dec. 5/02 Update to Report 1132747 - Addition of Model 5081 Series, 2-wire Transmitters.