

# Certificate of Compliance

**Certificate:** 1132747 (LR 34186-82)

**Master Contract:** 155560

**Project:** 1473463 (Edition 11)

**Date Issued:** 2004-04-19

**Issued to:** Rosemount Analytical Inc.  
Uniloc Division  
2400 Barranca Pky  
Irvine, CA 92606  
USA

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



  
**Issued by:** Tho Nguyen, C.E.T.

  
**Authorized by:** Patricia Pasemko  
Operations Manager

## PRODUCTS

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:

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).

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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.

Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups E, F and G; Class III:

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.

## **PRODUCTS**

**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:

Models 3081 pH/ORP and 3081FG Analyzer, rated input 42.5Vdc, output 4-20mA. Entity Parameters:  $V_{max} = 30$  Vdc,  $I_{max} = 300$ mA,  $C_i = 0.008$  uF,  $L_i = 0$ . 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:  $V_{max} = 30$  Vdc,  $I_{max} = 300$ mA,  $C_i = 0.01$  uF,  $L_i = 0$ . 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:  $V_{max} = 30$ V,  $I_{max} = 200$ mA,  $P_{max} = 0.9$ W,  $C_i = 27.8$ nF,  $L_i = 0$ mH; 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:  $V_{max} = 30$ V,  $I_{max} = 300$ mA,  $P_{max} = 1.3$ W,  $C_i = 27.8$ nF,  $L_i = 0$ mH; Intrinsically safe when connected per installation instruction No. 1400198, 1400202 and 1400206 respectively; Temp code T4; Maximum ambient 70°C; CSA Enclosure Type 4X.



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Model 5081-T-HT, 2-wire Transmitter, rated 42-42.5Vdc, output 4-20mA; Entity Parameters:  $V_{max} = 30V$ ,  $I_{max} = 200mA$ ,  $P_{max} = 0.9W$ ,  $C_i = 27.8nF$ ,  $L_i = 0mH$ ; 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:  $V_{max} = 30V$ ,  $I_{max} = 300mA$ ,  $P_{max} = 1.3W$ ,  $C_i = 517pF$ ,  $L_i = 0mH$ ; 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:  $V_{max} = 30V$ ,  $I_{max} = 200mA$ ,  $P_{max} = 0.9W$ ,  $C_i = 27.9nF$ ,  $L_i = 0mH$ ; 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:  $V_{max} = 30V$ ,  $I_{max} = 300mA$ ,  $P_{max} = 1.3W$ ,  $C_i = 564F$ ,  $L_i = 0mH$ ; 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
- 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

## *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
-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.
1469550	Sept 30/03	Update to Report 1132747 to add Model 5081T series, 2-wire transmitters
1473463	April 19/04	Update to Report 1132747 to addition of Model 5081-G-HT & 5081-G-FF series, 2-wire transmitters