



Certificate of Compliance

Certificate: 1132747 (LR34186-82)

Master Contract: 155560

Project: 2530553

Date Issued: December 18, 2012

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



Chris Burchett

Issued by: Chris Burchett

PRODUCTS

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non - Incendive Systems - For Hazardous Locations

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:

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; Temperature code T6; Maximum ambient 70°C. Seal required at each conduit entry (for explosion-proof only).



Certificate: 1132747 (LR34186-82)

Master Contract: 155560

Project: 2530553

Date Issued: December 18, 2012

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; Temperature 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; Temperature 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, Temperature 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, Temperature 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; Temperature 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; Temperature 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; Temperature code T4/T3A; Maximum ambient 70°C; CSA Enclosure Type 4X.

Notes For Model Series 3081, 5081:



Certificate: 1132747 (LR34186-82)

Master Contract: 155560

Project: 2530553

Date Issued: December 18, 2012

- (1) The model designation may include suffixes to designate assembly options
- (2) The suitability of the final installation is to be determined by the local authorities having jurisdiction.
- (3) Sensors are as indicated in the related Installation Drawings for the product; see also manufacturer drawing 1700462

Class I, Groups B, C and D; Class II, Groups E, F and G; Class III; Enclosure Type 4

Models 4081pH, 4081C, 4081T, 4081ORP, 2-wire transmitter, rated 9-32V dc max, output 4-20mA.

Class I, Div 2, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III; Enclosure Type 4

Analyzer, Models 4081pH/ORP/C/T/FG, rated input 9-32 Vdc, output 4-20mA. Temperature code T3A.
Maximum ambient 70°C

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III,

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

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

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



Certificate: 1132747 (LR34186-82)

Master Contract: 155560

Project: 2530553

Date Issued: December 18, 2012

The following models may be used with non-incendive field wiring when installed per their corresponding installation drawings:

Model	Installation Drawing
5081-A-HT	1400197
5081-P-HT	1400201
5081-C-HT	1400205
5081-A-FF	1400198
5081-P-FF	1400202
5081-C-FF	1400206
5081-A-FI	1400294
5081-P-FI	1400288
5081-C-FI	1400290

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. Temperature 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. Temperature 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; Temperature code T4; Maximum ambient 70°C; CSA Enclosure Type 4X.



Certificate: 1132747 (LR34186-82)

Master Contract: 155560

Project: 2530553

Date Issued: December 18, 2012

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: $V_{max} = 30V$, $I_{max} = 300mA$, $P_{max} = 1.3W$, $C_i = 27.8nF$, $L_i = 0mH$; Intrinsically safe when connected per installation instruction No.1400198, 1400202 and 1400206 respectively; Temperature 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: $V_{max} = 17.5V$, $I_{max} = 380mA$, $P_{max} = 5.32W$, $C_i = 27.8nF$, $L_i = 0mH$; Intrinsically safe when connected per installation instruction No.1400294, 1400288, 1400290 and 1400285 respectively; Temperature 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: $V_{max} = 30V$, $I_{max} = 200mA$, $P_{max} = 0.9W$, $C_i = 27.8nF$, $L_i = 0mH$; 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; Temperature 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; Temperature 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; Temperature code T4; Maximum ambient 70°C; CSA Enclosure Type 4X.

Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III; Enclosure Type 4

Analyzer, Models 4081 pH/ORP and 4081FG, rated input 9-32 Vdc, output 4-20mA. Entity Parameters: $V_{max} = 30 Vdc$, $I_{max} = 300mA$, $C_i = 0.008uF$, $L_i = 0$. Intrinsically safe when connected per installation instruction No 1400179 and 1400192, Temperature code T3A. Maximum ambient 70°C

Analyzer, Models 4081C and 4081T, rated input 9-32 Vdc, output 4-20mA. Entity Parameters: $V_{max} = 30 Vdc$,



Certificate: 1132747 (LR34186-82)

Master Contract: 155560

Project: 2530553

Date Issued: December 18, 2012

$I_{max} = 300\text{mA}$, $C_i = 0.01\mu\text{F}$, $L_i = 0$. Intrinsically safe when connected per installation instruction No 1400189 and 1400190, Temperature code T3A. Maximum ambient 70°C

Notes for Model Series 4081:

- (1) The above Model numbers include suffixes designating different options offered.
- (2) The suitability of the final installation is to be determined by the local authorities having jurisdiction.

APPLICABLE REQUIREMENTS

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

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

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

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

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

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

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