



Certificate of Compliance

Certificate: 1539246 (34186)

Master Contract: 155560

Project: 1617418

Date Issued: 2005/06/06

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

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

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

2-wire transmitters, HART Protocol:

Models Xmt-A-HT, Xmt-P-HT, Xmt-C-HT and Xmt-T-HT;

rated 42.4 Vdc max, output 4-20mA;



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CSA Enclosure Type 4X; Temp code T4; Maximum ambient 50oC;

Intrinsically safe when connected per installation instruction No 1400251, 1400255, 1400259, 1400263

Input, all transmitters, $V_{max} = 30V$, $I_{max} = 200mA$, $P_{max} = 0.9W$, $C_i = 0nF$, $L_i = 0uH$

Output, Model Xmt-A/pH-HT, $V_{oc} = 12.9V$, $I_{sc} = 86.5mA$, $P_{max} = 169.4mW$, $C_a = 1uF$, $L_a = 5mH$

Output, Model Xmt-C-HT, $V_{oc} = 7.2V$, $I_{sc} = 221mA$, $P_{max} = 279.5mW$, $C_a = 13uF$, $L_a = 800uH$

2-wire transmitters, Foundation Fieldbus:

Models Xmt-A-FF, Xmt-P-FF, Xmt-C-FF and Xmt-T-FF;

rated 9-32 Vdc max, output 4-20mA;

CSA Enclosure Type 4X; Temp code T4; Maximum ambient 50oC;

Intrinsically safe when connected per installation instruction No 1400252, 1400256, 1400260, 1400264

Entity Parameters,

$V_{max} = 30V$, $I_{max} = 300mA$, $P_{max} = 1.3W$, $C_i = 0.4nF$, $L_i = 0uH$

Output, Model Xmt-A/P-FF,

$V_t = 13.03V$

$I_t = 157.17mA$

$P_o = 511.59mW$

$C_a = 964.5nF$ Groups A/B

$C_a = 5.99uF$ Groups C/D

$C_a = 21.69uF$ Group D

$L_a = 974uH$ Groups A/B

$L_a = 2.974mH$ Groups C/D

$L_a = 7.97mH$ Groups D

Output, Model Xmt-C-FF,



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$V_t = 7.71V$

$I_t = 174.42mA$

$P_o = 336.19mW$

Ca = 850nF Groups A/B

Ca = 128uF Groups C/D

Ca = 9978uF Group D

La = 865uH Groups A/B

La = 2.66mH Groups C/D

La = 7.16mH Groups D

2-wire transmitters, Fieldbus Intrinsic Safety Concept (FISCO):

Models Xmt-A-FI, Xmt-P-FI, Xmt-C-FI and Xmt-T-FI;

rated 9-17.5 Vdc max, output 4-20mA;

CSA Enclosure Type 4X; Temp code T4; Maximum ambient 50oC;

Intrinsically safe when connected per installation instruction No 1400303, 1400304, 140005, 1400306

Entity Parameters,

$V_{max} = 17.5V$, $I_{max} = 380mA$, $P_{max} = 5.32W$, $C_i = 0.4nF$, $L_i = 0uH$

Output, Model Xmt-A/P-FI,

$V_t = 13.03V$

$I_t = 64.15mA$

$P_o = 0.208mW$

Ca = 964.5nF Groups A/B

Ca = 5.99uF Groups C/D

Ca = 21.69uF Group D



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La = 7.97mH Groups A/B

La = 29.97mH Groups C/D

La = 59.97mH Groups D

Output, Model Xmt-C-FI,

Vt = 7.71V

It = 64.15mA

Po = 0.123.65mW

Ca = 850nF Groups A/B

Ca = 128uF Groups C/D

Ca = 9978uF Group D

La = 7.965mH Groups A/B

La = 29.965mH Groups C/D

La = 59.965mH Groups D

2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

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

HART:

Models Xmt-A-HT, Xmt-P-HT, Xmt-C-HT and Xmt-T-HT;

rated 42.4 Vdc max, output 4-20mA;

CSA Enclosure Type 4X; Temp code T4; Maximum ambient 50oC.

Fieldbus Foundation:

Models Xmt-A-FF, Xmt-P-FF, Xmt-C-FF and Xmt-T-FF;

rated 9-32 Vdc max, output 4-20mA;

CSA Enclosure Type 4X; Temp code T4; Maximum ambient 50oC.



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Fieldbus Intrinsically Safe Concept:

Models Xmt-A-FI, Xmt-P-FI, Xmt-C-FI and Xmt-T-FI;

rated 9-17.5 Vdc max, output 4-20mA;

CSA Enclosure Type 4X; Temp code T4; Maximum ambient 50oC.

APPLICABLE REQUIREMENTS

C22.2 No 0 - M1991 General Requirements - Canadian Electrical Code Part II.

C22.2 No 0.4 - M2004 Bonding and Grounding of Electrical Equipment (Protective Grounding).

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

C22.2 No 94 - M1991 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.



CSA INTERNATIONAL

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
1617418	2005/06/06	Update Report 1539246 include Models XMT-x-FF and XMT-x-FI
1617421	2005/04/22	Update Report 1539246, include sensors Model 242 (3" - 4") for use with Transmitter Model Xmt-T-HT
1596387	2005/04/06	Update Report 1539246, include alternative enclosure material, GE Plastics, Type EXL9330
1539246	2004/07/21	Certification of Xmt-HT Transmitter (I.S. Gr A-G; NI Gr A-D; DIP Groups E-G, Class III) Similar to already-approved 5081-HT