



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

Xmt-A-HT-b. 2-Wire Transmitter.

IS/I,II,III/1/ABCDEFGH/T4 Ta = 50 °C - 1400235 Entity; Type 4X
NI/II/2/ABCD; S/II,III/2/FG/T4, Ta = 50 °C; Type 4X
Input Entity Parameters: U_i (Vmax) = 30 V, I_i (Imax) = 200 mA, P_i = 0.9 W, C_i = 0, L_i = 0
Output Entity Parameters: U_o (Voc) = 12.9 V, I_o (Isc) = 86.5 mA, P_o = 169.4mW
Class I, Division 1, Groups A & B: C_a = 1 μ F, L_a = 5mH
Class I & II, Division 1, Groups C & E: C_a = 6.5 μ F, L_a = 20mH
Class I, II, III Division 1, Groups D, F, & G: C_a = 23.2 μ F, L_a = 40mH
b = Mounting Type: 10, 11

Xmt-C-H-T-b. 2-Wire Transmitter.

IS/I,II,III/1/ABCDEFGH/T4 Ta = 50 °C - 1400243 Entity; Type 4X
NI/II/2/ABCD; S/II,III/2/FG/T4, Ta = 50 °C; Type 4X
Input Entity Parameters: U_i (Vmax) = 30 V, I_i (Imax) = 200 mA, P_i = 0.9W, C_i = 0, L_i = 0
Output Entity Parameters: U_o (Voc) = 7.2 V, I_o (Isc) = 221 mA, P_o = 279.5mW
Class I, Division 1, Groups A & B: C_a = 13 μ F, L_a = 800 μ H
Class I & II, Division 1, Groups C & E: C_a = 240 μ F, L_a = 3.3 mH
Class I, II, III Division 1, Groups D, F, & G: C_a = 240 μ F, L_a = 6 mH

Xmt-P-HT-b. 2-Wire Transmitter.

IS/I,II,III/1/ABCDEFGH/T4 Ta = 50 °C - 1400239 Entity; Type 4X
NI/II/2/ABCD; S/II,III/2/FG/T4, Ta = 50 °C; Type 4X
Input Entity Parameters: U_i (Vmax) = 30 V, I_i (Imax) = 200 mA, P_i = 0.9 W, C_i = 0, L_i = 0
Output Entity Parameters: U_o (Voc) = 12.9 V, I_o (Isc) = 86.5 mA, P_o = 169.4 mW
Class I, Division 1, Groups A & B: C_a = 1 μ F, L_a = 5 mH
Class I & II, Division 1, Groups C & E: C_a = 6.5 μ F, L_a = 20 mH
Class I, II, III Division 1, Groups D, F, & G: C_a = 23.2 μ F, L_a = 40 mH
b = Mounting Type: 10, 11

Model Xmt-T-HT-b. 2-Wire Transmitter.

IS/I,II,III/1/ABCDEFGH/T4 Ta = 50 °C - 1400247 Entity; Type 4X
NI/II/2/ABCD; S/II,III/2/FG/T4, Ta = 50 °C; Type 4X
Input Entity Parameters: U_i (Vmax) = 30 V, I_i (Imax) = 200mA, P_i = 0.9W, C_i = 0, L_i = 0
b = Mounting Type: 10, 11

Equipment Ratings:

Intrinsically Safe for use in Class I, II, and III, Division 1, Groups A, B, C, D, E, F and G; Temperature Class T4 Ta = 50°C; Suitable for use in Class I, Division 2, Groups A, B, C, D; Temperature Class T4 Ta = 50°C; Suitable for use in Class II, III, Division 2, Groups F, and G; Temperature Class T4 Ta = 50°C; indoor and outdoor Type 4X Hazardous (Classified) Locations.

Xmt-P-FF-a-67. 2-Wire Transmitter.

IS/I,II,III/1/ABCDEFGH/T4 Ta = 50°C – 1400240; Entity; NI/II/2/ABCD/T4 Ta = 50°C;
DIP/II,III/1/EFG/T4, Ta = 50°C; Type 4X

Entity Parameters:

Vmax = 30V, Imax = 300mA, Pi = 1.3W, Ci = 242pF, Li = 0.

Output Sensor Parameters:

Groups A/B: Vt = 13.03V, It = 157.17mA, Po = 511.59mW, Ca = 964.5nF, La = 974μH.

Groups C/D: Vt = 13.03V, It = 157.17mA, Po = 511.59mW, Ca = 5.99μF, La = 2.974mH.

Group D: Vt = 13.03V, It = 157.17mA, Po = 511.59mW, Ca = 21.69μF, La = 7.97mH.

a = Mounting Type: 10, 11

Xmt-A-FF-a-67. 2-Wire Transmitter.

IS/I,II,III/1/ABCDEFGH/T4 Ta = 50°C – 1400236; Entity; NI/II/2/ABCD/T4 Ta = 50°C;
DIP/II,III/1/EFG/T4, Ta = 50°C; Type 4X

Entity Parameters:

Vmax = 30V, Imax = 300mA, Pi = 1.3W, Ci = 242pF, Li = 0.

Output Sensor Parameters:

Groups A/B: Vt = 13.03V, It = 157.17mA, Po = 511.59mW, Ca = 964.5nF, La = 974μH.

Groups C/D: Vt = 13.03V, It = 157.17mA, Po = 511.59mW, Ca = 5.99μF, La = 2.974mH.

Group D: Vt = 13.03V, It = 157.17mA, Po = 511.59mW, Ca = 21.69μF, La = 7.97mH.

a = Mounting Type: 10, 11

Xmt-C-FF-a-67. 2-Wire Transmitter.

IS/I,II,III/1/ABCDEFGH/T4 Ta = 50°C – 1400244; Entity; NI/II/2/ABCD/T4 Ta = 50°C;
DIP/II,III/1/EFG/T4, Ta = 50°C; Type 4X

Entity Parameters:

Vmax = 30V, Imax = 300mA, Pi = 1.3W, Ci = 242pF, Li = 0.

Output Sensor Parameters:

Groups A/B: Vt = 7.71V, It = 174.42mA, Po = 336.19mW, Ca = 850nF, La = 865μH.

Groups C/D: Vt = 7.71V, It = 174.42mA, Po = 336.19mW, Ca = 128μF, La = 2.66mH.

Group D: Vt = 7.71V, It = 174.42mA, Po = 336.19mW, Ca = 9978μF, La = 7.16mH.

a = Mounting Type: 10, 11

Xmt-T-FF-a-67. 2-Wire Transmitter.

IS/I,II,III/1/ABCDEFGH/T4 Ta = 50°C – 1400248; Entity; NI/II/2/ABCD/T4 Ta = 50°C;
DIP/II,III/1/EFG/T4, Ta = 50°C; Type 4X

Entity Parameters:

Vmax = 30V, Imax = 300mA, Pi = 0.9W, Ci = 242pF, Li = 0.

a = Mounting Type: 10, 11.

Xmt-P-FI-a-67. 2-Wire Transmitter.

IS/I,II,III/1/ABCDEFGH/T4 Ta = 50°C – 1400300; Entity; NI/II/2/ABCD/T4 Ta = 50°C;
DIP/II,III/1/EFG/T4, Ta = 50°C; Type 4X

Entity Parameters:

Vmax = 17.5V, Imax = 380mA, Pi = 5.32W, Ci = 242pF, Li = 0.

Output Sensor Parameters:

Groups A/B: Vt = 13.03V, It = 64.15mA, Po = 208.96mW, Ca = 964.5nF, La = 7.97mH.

Groups C/D: Vt = 13.03V, It = 64.15mA, Po = 208.96mW, Ca = 5.99μF, La = 29.97mH.

Group D: $V_t = 13.03V$, $I_t = 64.15mA$, $P_o = 208.96mW$, $C_a = 21.69\mu F$, $L_a = 59.97mH$.
a = Mounting Type: 10, 11

Xmt-A-Fl-a-67. 2-Wire Transmitter.

IS/I,II,III/1/ABCDEFGH/T4 $T_a = 50^\circ C$ – 1400299; Entity; NI/II/2/ABCD/T4 $T_a = 50^\circ C$;
DIP/II,III/1/EFG/T4, $T_a = 50^\circ C$; Type 4X

Entity Parameters:

$V_{max} = 17.5V$, $I_{max} = 380mA$, $P_i = 5.32W$, $C_i = 242pF$, $L_i = 0$.

Output Sensor Parameters:

Groups A/B: $V_t = 13.03V$, $I_t = 64.15mA$, $P_o = 208.81mW$, $C_a = 964.5nF$, $L_a = 7.97mH$.

Groups C/D: $V_t = 13.03V$, $I_t = 64.15mA$, $P_o = 208.81mW$, $C_a = 5.99\mu F$, $L_a = 29.97mH$.

Group D: $V_t = 13.03V$, $I_t = 64.15mA$, $P_o = 208.81mW$, $C_a = 21.69\mu F$, $L_a = 59.97mH$.

a = Mounting Type: 10, 11

Xmt-C-Fl-a-67. 2-Wire Transmitter.

IS/I,II,III/1/ABCDEFGH/T4 $T_a = 50^\circ C$ – 1400301; Entity; NI/II/2/ABCD/T4 $T_a = 50^\circ C$;
DIP/II,III/1/EFG/T4, $T_a = 50^\circ C$; Type 4X

Entity Parameters:

$V_{max} = 17.5V$, $I_{max} = 380mA$, $P_i = 5.32W$, $C_i = 242pF$, $L_i = 0$.

Output Sensor Parameters:

Groups A/B: $V_t = 7.71V$, $I_t = 64.15mA$, $P_o = 123.65mW$, $C_a = 850nF$, $L_a = 7.96mH$.

Groups C/D: $V_t = 7.71V$, $I_t = 64.15mA$, $P_o = 123.65mW$, $C_a = 128\mu F$, $L_a = 29.96mH$.

Group D: $V_t = 7.71V$, $I_t = 64.15mA$, $P_o = 123.65mW$, $C_a = 9978\mu F$, $L_a = 59.96mH$.

a = Mounting Type: 10, 11

Xmt-T-Fl-a-67. 2-Wire Transmitter.

IS/I,II,III/1/ABCDEFGH/T4 $T_a = 50^\circ C$ – 1400302; Entity; NI/II/2/ABCD/T4 $T_a = 50^\circ C$; DIP/II,III/1/EFG/T4, $T_a = 50^\circ C$; Type 4X

Entity Parameters:

$V_{max} = 17.5V$, $I_{max} = 380mA$, $P_i = 5.32W$, $C_i = 242pF$, $L_i = 0$.

a = Mounting Type: 10, 11.

Equipment Ratings:

Intrinsically Safe (Entity) for use in Class I, II and III, Division 1, Groups A, B, C, D, E, F and G; Temperature Class T4 $T_a = 50^\circ C$ in accordance with Control Drawing Nos. 1400236, 1400240, 1400244, 1400248, 1400299, 1400300, 1400301, 1400302; Fieldbus Intrinsically Safe Concept (FISCO) for use in Class I, II and III, Division 1, Groups A, B, C, D, E, F and G; Temperature Class T4 $T_a = 50^\circ C$ in accordance with Control Drawing Nos. 1400236, 1400240, 1400244, 1400248, 1400299, 1400300, 1400301, 1400302; Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; Temperature Class T4 $T_a = 50^\circ C$; Dust-Ignitionproof for use in Class II and III, Division 1, Groups E, F and G; Temperature Class T5 $T_a = 50^\circ C$; indoor and outdoor, Type 4X Hazardous (Classified) Locations.

Approved for:

Emerson Process Management/Rosemount Analytical
Irvine, CA 92606 USA

This certifies that the equipment described has been found to comply with the following FM Approval Standards and other documents:

Class 3600	1998
Class 3610	1999
Class 3611	2004
Class 3810	2005
ANSI/NEMA 250	1991

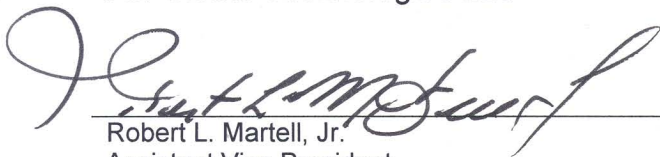
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Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
3022285	June 30, 2005		
050715	<i>July 21, 2005</i>		

FM Global Technologies LLC



Robert L. Martell, Jr.
Assistant Vice President
FM Approvals

July 21, 2005
Date