



FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

TRY/a/4-20mA/10-30DC/-R-ISF [b]. Temperature Transmitter.

IS/I,II,III/1/ABCDEFG/T6 Ta = 60°C - 100-100-49; Entity; Class I, Zone 0, AEx ia IIC T6 Ta = 60°C - 100-100-49; NI/1/2/ABCD/T6 Ta = 60°C; S/II/2/FG/T6 Ta = 60°C; S/III/2/T6 Ta = 60°C

Entity Parameters:

Vmax = 30V, Imax = 110mA, Pi = 0.825W, Ci = 10.34nF, Li = 0mH.

Sensor Terminals:

Vt = 6.51V, It = 110mA, Po = 560mW, Ca = 10uF, La = 2.7mH.

a= Input J-, K-, E-, T-, R-, S-, N-, B-, RO-, MV-, R1-, R2-, R3-, R4-, R5-, R6-, R7-, R8-, R9-, R10-, R11-, R12-, R13-, R14-, R15-, R16-, R17-, R18-, R19-, R20-, R21-, R22-, R23-

b= Housing HPP, HPPD, HPPDN, CCP, CH6, D-BOX, LH1, LH2

Special Conditions of Use:

1. The unit shall be installed in an enclosure meeting the requirements of ANSI/ISA S82.02.01 or other applicable ordinary location standards.
2. No connections shall be made to the communications "COM" port in Hazardous (Classified) Locations.
3. Maximum operating parameters of the "COM" port for use in Non-Hazardous areas shall not exceed 3.0V, 300µA and 240µW.

Equipment Ratings:

Intrinsically Safe (Entity) for use in Class I, II and III, Division 1, Groups A, B, C, D, E, F and G in accordance with Control Drawings No.100-100-49; Class I, Zone 0, AEx ia IIC T6 in accordance with Control Drawings No.100-100-49; Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; Suitable for use in Class II and III, Division 2, Groups F and G; indoor Hazardous (Classified) Locations.

TRX/a/4-20mA/8-30DC/-R-ISF [b]. Temperature Transmitter.

IS/I,II,III/1/ABCDEFG/T6 Ta = 60°C - 100-100-38; Entity; Class I, Zone 0, AEx ia IIC T6 Ta = 60°C - 100-100-38; NI/1/2/ABCD/T6 Ta = 60°C; S/II/2/FG/T6 Ta = 60°C; S/III/2/T6 Ta = 60°C

Entity Parameters:

Vmax = 30V, Imax = 110mA, Pi = 0.825W, Ci = 4.7nF, Li = 0mH.

RTD Sensor Terminals:

Vt = 6.51V, It = 110mA, Po = 0.716W, Ca = 2.26µF, La = 3mH.

a= Input J-, K-, E-, T-, R-, S-, N-, B-, RO-, MV-, R1-, R2-, R3-, R4-, R5-, R6-, R7-, R8-, R9-, R10-, R11-, R12-, R13-, R14-, R15-, R16-, R17-, R18-, R19-, R20-, R21-, R22-, R23-

b= Housing HPP, HPPD, HPPDN, CCP, CH6, D-BOX, LH1, LH2



Special Conditions of Use:

1. The unit shall be installed in an enclosure meeting the requirements of ANSI/ISA S82.02.01 or other applicable ordinary location standards.
2. No connections shall be made to the communications "COM" port in Hazardous (Classified) Locations.
3. Maximum operating parameters of the "COM" port for use in Non-Hazardous areas shall not exceed 3.0V, 300 μ A and 240 μ W.

T2X/a/4-20mA/8-30DC/-ISF [b]. Temperature Transmitter.

IS/I,II,III/1/ABCDEFG/T6 Ta = 60°C - 100-100-38; Entity; Class I, Zone 0, AEx ia IIC T6 Ta = 60°C - 100-100-38; NI/II/2/ABCD/T6 Ta = 60°C; S/II/2/FG/T6 Ta = 60°C; S/III/2/T6 Ta = 60°C

Entity Parameters:

V_{max} = 30V, I_{max} = 110mA, P_i = 0.825W, C_i = 4.7nF, L_i = 0mH.

RTD Sensor Terminals:

V_t = 6.51V, I_t = 110mA, P_o = 0.716W, C_a = 2.32 μ F, L_a = 3mH.

a= Input J-, K-, E-, T-, R-, S-, N-, B-, RO-, MV-, R1-, R2-, R3-, R4-, R5-, R6-, R7-, R8-, R9-, R10-, R11-, R12-, R13-, R14-, R15-, R16-, R17-, R18-, R19-, R20-, R21-, R22-, R23-

b= Housing HPP, HPPD, HPPDN, CCP, CH6, D-BOX, LH1, LH2

Special Conditions of Use:

1. The unit shall be installed in an enclosure meeting the requirements of ANSI/ISA S82.02.01 or other applicable ordinary location standards.
2. No connections shall be made to the communications "COM" port in Hazardous (Classified) Locations.
3. Maximum operating parameters of the "COM" port for use in Non-Hazardous areas shall not exceed 3.0V, 300 μ A and 240 μ W.

Equipment Ratings:

Intrinsically Safe (Entity) for use in Class I, II and III, Division 1, Groups A, B, C, D, E, F and G in accordance with Control Drawings No.100-100-38; Class I, Zone 0, AEx ia IIC T6 in accordance with Control Drawings No.100-100-38; Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; Suitable for use in Class II and III, Division 2, Groups F and G; indoor Hazardous (Classified) Locations.

SIY/a/4-20mA/10-30DC/-R-ISF [b]. Temperature Transmitter.

IS/I,II,III/1/ABCDEFG/T6 Ta = 60°C - 100-100-60; Entity; Class I, Zone 0, AEx ia IIC T6 Ta = 60°C - 100-100-60; NI/II/2/ABCD/T6 Ta = 60°C; S/II/2/FG/T6 Ta = 60°C; S/III/2/T6 Ta = 60°C

Entity Parameters:

V_{max} =30V, I_{max} = 110mA, P_i = 0.825W, C_i =10.34nF, L_i = 0mH.

Sensor Terminals:

V_t = 6.51V, I_t = 110mA, P_o = 560mW, C_a = 10 μ F, L_a = 2.7mH.

a= Input V (0-10V) or I (0-50mA).

b= Housing HPP, HPPD, HPPDN, CCP, CH6, D-BOX, LH1, LH2

Special Conditions of Use:

1. The unit shall be installed in an enclosure meeting the requirements of ANSI/ISA S82.02.01 or other applicable ordinary location standards.
2. No connections shall be made to the communications "COM" port in Hazardous (Classified) Locations.
3. Maximum operating parameters of the "COM" port for use in Non-Hazardous areas shall not exceed 3.0V, 300mA and 240mW.

Equipment Ratings:

Intrinsically Safe (Entity) for use in Class I, II and III, Division 1, Groups A, B, C, D, E, F and G in accordance with Control Drawing No. 100-100-60; Class I, Zone 0, AEx ia IIC T6 in accordance with



Control Drawings No. 100-100-60; Nonincendive for use in Class I, Division 2, Groups A, B, C, and D;
Suitable for use in Class II and III, Division 2, Groups F and G; indoor Hazardous (Classified) Locations.

Approved for:

Moore Industries International
Sepulveda, CA 91343 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	1999
Class 3810	1989
Supplement # 1	1995


Original Project ID: 3008479

FM Approval Granted: October 3, 2000

Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
3009311	October 30, 2000		
3016624	March 12, 2003		
3020914	10-1-04		

FM Global Technologies LLC


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

10-1-04
Date