



Member of the FM Global Group

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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/II/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/II/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 $\mu$ A and 240 $\mu$ 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:**

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

**RTD Sensor Terminals:**

Vt = 6.51V, It = 110mA, Po = 0.716W, Ca = 2.32 $\mu$ F, 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 $\mu$ A and 240 $\mu$ 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:**

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 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.

**FM Approved for:**

Moore Industries International, Inc.  
North Hills, CA 91343-6196 USA

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

Class 3600	1998
Class 3610	2010
Class 3611	2004
Class 3810	2005
ANSI/ISA-60079-0	2009
ANSI/ISA-60079-11	2009

Original Project ID: 3008479

Approval Granted: October 3, 2000

**Subsequent Revision Reports / Date Approval Amended**

Report Number	Date	Report Number	Date
3009311	October 30, 2000		
3016624	March 12, 2003		
3020914	October 1, 2004		
3042210	November 15, 2011		

FM Approvals LLC




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Timothy Adam  
Technical Team Manager

Nov 15, 2011

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Date