



Member of the FM Global Group

FM Approvals
1151 Boston-Providence Turnpike
P.O. Box 9102 Norwood, MA 02062 USA
T: 781 762 4300 F: 781 762 9375 www.fmglobal.com

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

TFZ/a/H1/b/-c [d]. Temperature Transmitter.

IS/II/1/ABCD/T4 Ta = 85°C – 100-100-72; Entity; I/0/AEx ia IIC T4 Ta = 85°C – 100-100-72; Entity; NI/II/2/ABCD/T4 Ta = 85°C

Entity Parameters:

Vmax = 30V, Imax = 300mA, Pi = 1.3W, Ci = 0µF, Li = 7.15µH.

FISCO Parameters:

Vmax = 24V, Imax = 380mA, Pi = 5.32W, Ci = 0µF, Li = 7.15µH.

Field Sensor Terminals:

Vt = 6.6V, It = 35.24mA, Po = 57.53mW, Ca = 20.53µF, La = 25mH (Groups A, B).

Vt = 6.6V, It = 35.24mA, Po = 57.53mW, Ca = 498.53µF, La = 100mH (Groups C, D).

Vt = 6.6V, It = 35.24mA, Po = 57.53mW, Ca = 998.54µF, La = 200mH (Group D).

a= Input: TPRG, J-, K-, E-, T-, R-, S-, N-, B-, C-, MV, R1-, R2-, R3-, R4-, R5-, R6-, R7-, R8-, R9-, R10-, R11-, R12-, R13-, R14-, RO- or POT-.

b= Power: 9-30DC (Intrinsically Safe), 9-32DC (Nonincendive & General Locations), 9-24V (FISCO).

c= Options: VTB or VTD.

d= Housing options: DN, FL, HP, TW, VDN, BH, D or SB.

Special Conditions of Use:

1. The Model TFZ Temperature Transmitter shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

TPZ/a/PA/b/-c [d]. Temperature Transmitter.

IS/II/1/ABCD/T4 Ta = 85°C;-100-100-72; Entity; I/0/AEx ia IIC T4 Ta = 85°C; – 100-100-72; Entity; NI/II/2/ABCD/T4 Ta = 85°C

Entity Parameters:

Vmax = 30V, Imax = 300mA, Pi = 1.3W, Ci = 0µF, Li = 7.15µH.

FISCO Parameters:

Vmax = 24V, Imax = 380mA, Pi = 5.32W, Ci = 0µF, Li = 7.15µH.

Field Sensor Terminals:

Vt = 6.6V, It = 35.24mA, Po = 57.53mW, Ca = 20.53µF, La = 25mH (Groups A, B).

Vt = 6.6V, It = 35.24mA, Po = 57.53mW, Ca = 498.53µF, La = 100mH (Groups C, D).

Vt = 6.6V, It = 35.24mA, Po = 57.53mW, Ca = 998.54µF, La = 200mH (Group D).

a= Input: TPRG, J-, K-, E-, T-, R-, S-, N-, B-, C-, MV, R1-, R2-, R3-, R4-, R5-, R6-, R7-, R8-, R9-, R10-, R11-, R12-, R13-, R14-, RO- or POT-.

b= Power: 9-30DC (Intrinsically Safe), 9-32DC (Nonincendive & General Locations), 9-24V (FISCO).



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c= Options: VTB or VTD.

d= Housing options: DN, FL, HP, TW, VDN, BH, D or SB.

Special Conditions of Use:

1. The Model TPZ Temperature Transmitter shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

Equipment Ratings:

Intrinsically Safe (Entity) for use in Class I, Division 1, Groups A, B, C and D; Temperature Class T4 Ta = 85°C in accordance with Control Drawing No.100-100-72; Intrinsically safe (Entity) for use in Class I, Zone 0, AEx ia IIC T4 Ta = 85°C; in accordance with Control Drawing No.100-100-72; Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; Temperature Class T4 Ta = 85°C; indoor Hazardous (Classified) Locations.

FM Approved for:

Moore Industries-International, Inc.
North Hills, CA 91343 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	1999
Class 3611	2004
Class 3810	2005


Original Project ID: 3025595


Approval Granted: *December 19, 2007*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC


 Robert L. Martell, Jr.
 Group Manager


 Date



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T: 781 762 4300 F: 781 762 9375 www.fmglobal.com

CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

TFZ/a/H1/b/-c [d]. Temperature Transmitter.

IS//I1/ABCD/T4 Ta = 85°C – 100-100-72; Entity; NI//I2/ABCD/T4 Ta = 85°C

Entity Parameters:

Vmax = 30V, Imax = 300mA, Pi = 1.3W, Ci = 0µF, Li = 7.15µH.

FISCO Parameters:

Vmax = 24V, Imax = 380mA, Pi = 5.32W, Ci = 0µF, Li = 7.15µH.

Field Sensor Terminals:

Vt = 6.6V, It = 35.24mA, Po = 57.53mW, Ca = 20.53µF, La = 25mH (Groups A, B).

Vt = 6.6V, It = 35.24mA, Po = 57.53mW, Ca = 498.53µF, La = 100mH (Groups C, D).

Vt = 6.6V, It = 35.24mA, Po = 57.53mW, Ca = 998.54µF, La = 200mH (Group D).

a= Input: TPRG, J-, K-, E-, T-, R-, S-, N-, B-, C-, MV, R1-, R2-, R3-, R4-, R5-, R6-, R7-, R8-, R9-, R10-, R11-, R12-, R13-, R14-, RO- or POT-.

b= Power: 9-30DC (Intrinsically Safe), 9-32DC (Nonincendive & General Locations), 9-24V (FISCO).

c= Options: VTB or VTD.

d= Housing options: DN, FL, HP, TW, VDN, BH, D or SB.

Special Conditions of Use:

1. The Model TFZ Temperature Transmitter shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

TPZ/a/PA/b/-c [d]. Temperature Transmitter.

IS//I1/ABCD/T4 Ta = 85°C; – 100-100-72; Entity; NI//I2/ABCD/T4 Ta = 85°C

Entity Parameters:

Vmax = 30V, Imax = 300mA, Pi = 1.3W, Ci = 0µF, Li = 7.15µH.

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Vt = 6.6V, It = 35.24mA, Po = 57.53mW, Ca = 998.54µF, La = 200mH (Group D).

a= Input: TPRG, J-, K-, E-, T-, R-, S-, N-, B-, C-, MV, R1-, R2-, R3-, R4-, R5-, R6-, R7-, R8-, R9-, R10-, R11-, R12-, R13-, R14-, RO- or POT-.

b= Power: 9-30DC (Intrinsically Safe), 9-32DC (Nonincendive & General Locations), 9-24V (FISCO).

c= Options: VTB or VTD.

d= Housing options: DN, FL, HP, TW, VDN, BH, D or SB.



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Special Conditions of Use:

1. The Model TPZ Temperature Transmitter shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

Equipment Ratings:

Intrinsically Safe (Entity) for use in Class I, Division 1, Groups A, B, C and D; Temperature Class T4 Ta = 85°C in accordance with Control Drawing No.100-100-72; Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; Temperature Class T4 Ta = 85°C; indoor Hazardous Locations.

FM Approved for:

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

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

CAN C22.2 No.157-92	1992
(Re-affirmed 2006)	
CAN C22.2 No.213-M1987	1987
(Re-affirmed 2004)	
C22.2 No. 1010.1	2004

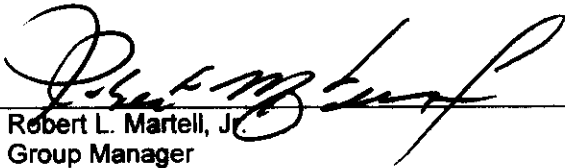
Original Project ID: 3025595C

Approval Granted: *December 19, 2007*

Subsequent Revision Reports / Date Approval Amended

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FM Approvals LLC


 Robert L. Martell, Jr.
 Group Manager

December 19, 2007
 Date