



Member of the FM Global Group

FM Approvals
1151 Boston-Providence Turnpike
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

TDZ²/a/4-20mA/b/-c [d]. Temperature Transmitter.

IS/I/1/ABCD/T4 Ta = 85°C – 100-100-71; Entity; I/0/AEx ia IIC T4 Ta = 85°C – 100-100-71; Entity; NI/I/2/ABCD/T4 Ta = 85°C

Entity Parameters:

V_{max} = 30V, I_{max} = 110, P_i = 825mW, C_i = 5.83nF, L_i = 0mH.

Field Sensor Terminals:

V_t = 6.51V, I_t = 35.39mA, P_o = 57.6mW, C_a = 20μF, L_a = 25mH (Groups A, B).

V_t = 6.51V, I_t = 35.39mA, P_o = 57.6mW, C_a = 498μF, L_a = 100mH (Groups C, D).

V_t = 6.51V, I_t = 35.39mA, P_o = 57.6mW, C_a = 20μF, L_a = 200mH (Group D).

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

b= Power: 12-42DC or 12-30DC. (12-42DC not for Intrinsically Safe Installations)

c= Options: TROP, HS, VTB, VTD.

d= Housing options: BH or D.

Special Conditions of Use:

1. *The Model TDZ² 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.100-100-71; Intrinsically safe (Entity) for use in Class I, Zone 0, AEx ia IIC T4 Ta = 85°C; in accordance with Control Drawing No.100-100-71; Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; Temperature Class T4 Ta = 85°C; indoor Hazardous (Classified) Locations.

THZ²/a/4-20mA/b/-c [d]. Temperature Transmitter.

IS/II/1/ABCD/ T5 Ta = 85°C; T6 Ta = 60°C – 100-100-71; Entity; I/0/AEx ia IIC T5 Ta = 85°C; T6 Ta = 60°C – 100-100-71; Entity; NII/2/ABCD/ T5 Ta = 85°C; T6 Ta = 60°C

Entity Parameters:

V_{max} = 30V, I_{max} = 110 Pi = 825mW, Ci = 5.83nF, Li = 0mH.

Field Sensor Terminals:

V_t = 6.51V, I_t = 35.39mA, P_o = 57.6mW, C_a = 20μF, L_a = 25mH (Groups A, B, C, D).

V_t = 6.51V, I_t = 35.39mA, P_o = 57.6mW, C_a = 498μF, L_a = 100mH (Groups C, D).

V_t = 6.51V, I_t = 35.39mA, P_o = 57.6mW, C_a = 20μF, L_a = 200mH (Group D).

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

b= Power: 12-42DC or 12-30DC. (12-42DC not for Intrinsically Safe Installations)

c= Options: VTB, VTD.

e= Housing options: D or LH1.

Special Conditions of Use:

1. The Model THZ² 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 T5 Ta = 85°C; T6 Ta = 60°C in accordance with Control Drawing No.100-100-71; Intrinsically safe (Entity) for use in Class I, Zone 0, AEx ia IIC T5 Ta = 85°C; T6 Ta = 60°C in accordance with Control Drawing No.100-100-71; Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; T5 Ta = 85°C; T6 Ta = 60°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: 3024597

Approval Granted: *MAY 23, 2007*

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC



Robert L. Martell, Jr.
Technical Team Manager

MAY 23, 2007

Date



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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

TDZ²/a/4-20mA/b/-c [d]. Temperature Transmitter.

IS/II/1/ABCD/T4 Ta = 85°C – 100-100-71; Entity; NI/II/2/ABCD/T4 Ta = 85°C

Entity Parameters:

V_{max} = 30V, I_{max} = 110, P_i = 825mW, C_i = 5.83nF, L_i = 0mH.

Field Sensor Terminals:

V_t = 6.51V, I_t = 35.39mA, P_o = 57.6mW, C_a = 20μF, L_a = 25mH (Groups A, B).

V_t = 6.51V, I_t = 35.39mA, P_o = 57.6mW, C_a = 498μF, L_a = 100mH (Groups C, D).

V_t = 6.51V, I_t = 35.39mA, P_o = 57.6mW, C_a = 20μF, L_a = 200mH (Group D).

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

b= Power: 12-42DC or 12-30DC. (12-42DC not for Intrinsically Safe Installations)

c= Options: TROP, HS, VTB, VTD.

d= Housing options: BH or D.

Special Conditions of Use:

1. The Model TDZ² 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.100-100-71; Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; Temperature Class T4 Ta = 85°C; indoor Hazardous Locations.

THZ²/a/4-20mA/b/-c [d]. Temperature Transmitter.

IS/II/1/ABCD/T5 Ta = 85°C; T6 Ta = 60°C – 100-100-71; Entity; NI/II/2/ABCD/ T6 Ta = 60°C

Entity Parameters:

V_{max} = 30V, I_{max} = 110 Pi = 825mW, Ci = 5.83nF, Li = 0mH.

Field Sensor Terminals:

V_t = 6.51V, I_t = 35.39mA, Po = 57.6mW, Ca = 20μF, La = 25mH (Groups A, B, C, D).

V_t = 6.51V, I_t = 35.39mA, Po = 57.6mW, Ca = 498μF, La = 100mH (Groups C, D).

V_t = 6.51V, I_t = 35.39mA, Po = 57.6mW, Ca = 20μF, La = 200mH (Group D).

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

b= Power: 12-42DC or 12-30DC. (12-42DC not for Intrinsically Safe Installations)

c= Options: VTB, VTD.

e= Housing options: D or LH1.

Special Conditions of Use:

1. The Model THZ² 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 T5 Ta = 85°C; T6 Ta = 60°C in accordance with Control Drawing No.100-100-71; Nonincendive for use in Class I, Division 2, Groups A, B, C, and D; T5 Ta = 85°C; T6 Ta = 60°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 (Re-affirmed 2006)	1992
CAN C22.2 No.213-M1987 (Re-affirmed 2004)	1987
C22.2 No. 1010.1	2004

Original Project ID: 3024597C

Approval Granted: *MAY 23, 2007*

Subsequent Revision Reports / Date Approval Amended

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