



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:

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

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

Entity Parameters: $V_{max} = 30$ V, $I_{max} = 300$ mA, $P_i = 1.3$ W, $C_i = 0$ μ F, $L_i = 7.15$ μ H.

FISCO Parameters: $V_{max} = 24$ V, $I_{max} = 380$ mA, $P_i = 5.32$ W, $C_i = 0$ μ F, $L_i = 7.15$ μ H.

Field Sensor Terminals:

$V_t = 6.51$ V, $I_t = 34.74$ mA, $P_o = 55.97$ mW, $C_a = 20.53$ μ F, $L_a = 25$ mH (Groups A, B).

$V_t = 6.51$ V, $I_t = 34.75$ mA, $P_o = 55.97$ mW, $C_a = 498.53$ μ F, $L_a = 100$ mH (Groups C, D).

$V_t = 6.51$ V, $I_t = 34.75$ mA, $P_o = 55.97$ mW, $C_a = 998.53$ μ F, $L_a = 200$ mH (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 / I / 1 / ABCD / T4 Ta = 85°C; – 100-100-72; Entity; I / 0 / AEx ia IIC T4 Ta = 85°C; – 100-100-72; Entity;
NI / I / 2 / ABCD / T4 Ta = 85°C

Entity Parameters: $V_{max} = 30$ V, $I_{max} = 300$ mA, $P_i = 1.3$ W, $C_i = 0$ μ F, $L_i = 7.15$ μ H.

FISCO Parameters: $V_{max} = 24$ V, $I_{max} = 380$ mA, $P_i = 5.32$ W, $C_i = 0$ μ F, $L_i = 7.15$ μ H.

Field Sensor Terminals:

$V_t = 6.51$ V, $I_t = 34.74$ mA, $P_o = 55.97$ mW, $C_a = 20.53$ μ F, $L_a = 25$ mH (Groups A, B).

$V_t = 6.51$ V, $I_t = 34.75$ mA, $P_o = 55.97$ mW, $C_a = 498.53$ μ F, $L_a = 100$ mH (Groups C, D).

$V_t = 6.51$ V, $I_t = 34.75$ mA, $P_o = 55.97$ mW, $C_a = 998.53$ μ F, $L_a = 200$ mH (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 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 T5 Ta = 85°C; T6 Ta = 60°C in accordance with Control Drawing No.100-100-77; 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.100-100-77; 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 91343-6196 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 |

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Subsequent Revision Reports / Date Approval Amended

| Report Number | Date | Report Number | Date |
|---------------|-------------------|---------------|------|
| 080211 | March 17, 2008 | | |
| 3042210 | November 15, 2011 | | |

FM Approvals LLC



Timothy Adam
Technical Team Manager

15 Nov. 2011

Date