



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:

Series 642 Transmitter model ab-c-def-gh

XP / I / 1 / ABCD / T6 Ta = 55°C; T5 Ta = 70°C; T4 Ta = 85°C — M0077 Sheet 03;
DIP / II,III / EFG / T6 Ta = 55°C; T5 Ta = 70°C; T4 Ta = 85°C — M0077 Sheet 03;
XP / I / 1 / IIC T6 Ta = 55°C; T5 Ta = 70°C; T4 Ta = 85°C — M0077 Sheet 03; Type 4X; IP66, IP67
IS / I / 1 / ABCD / T4 Ta = 85°C — M0077 Sheet 01, Entity;
NI / I / 2 / ABCD / T4 Ta = 85°C — M0077 Sheet 01; NIFW;
I / 0 / AEx ia / IIC / T4 Ta = 85°C — M0077 Sheet 01, Entity; Type 4X; IP66, IP67
Entity/Nonincendive Field Wiring Parameters:
VMax = 30 V, IMax = 300 mA, Pi = 1 W, Ci = 5.3 nF, Li = 0.
Voc = 7.6 V, Isc = 29.3 mA, Po = 55.6 mW, Ca = 10.4 µF, La = 40 mH.
a = Housing: 75, 35, 85, or 95
b = Certification: XP, XF, IP, IF, or GP
c = Display: D642 or T642
d = Transmitter connection: 1, 2, 3 or 4.
e = Temperature sensor configuration: J, K, T, N, E, R, S, B, 85, 55, 95, MV, W, C, D, L, or U
f = Error configuration: U or D
g = Configuration: S(lower limit-upper limit) or Z(from config. Data sheet)
h = Temperature unit: C, F, or K



Equipment Ratings:

The Series 642 Transmitter is FM Approved as Explosionproof for Class 1, Division 1, Groups A, B, C and D; Class I, Zone 1, Group IIC and Dust Ignitionproof for Class II, III, Division 1, Groups E, F and G hazardous (classified) locations when installed in accordance control drawing M0077 Sheet 03 in either a maximum ambient temperature of 55°C with a temperature class designation of T6 or a maximum ambient temperature of 70°C with a temperature class designation of T5 or a maximum ambient temperature of 85°C with a temperature class designation of T4; Intrinsically Safe for use in Class I, Division 1, Groups A, B, C and D and Class I, Zone 0, Group IIC when installed in accordance with Entity requirements and control drawing M0077 Sheet 01; Nonincendive for use in Class I, Division 2, Groups A, B, C and D Indoor and Outdoor Hazardous (Classified) Locations when installed in accordance control drawing M0077 Sheet 01 or 03. Environmental examination and testing for Type 4X, IP66 and IP67.

FM Approved for:

Pyromation Incorporated
Fort Wayne, IN



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 3615 | 2006 |
| Class 3810 | 1989 |
| Supplement 1 | 1995 |
| NEMA 250 | 1991 |
| IEC 60529 | 2001 |
| ANSI/ISA 60079-0 | 2009 |
| ANSI/ISA 60079-11 | 2009 |

Original Project ID: 3026765

Approval Granted: July 10, 2006

Subsequent Revision Reports / Date Approval Amended

| Report Number | Date | Report Number | Date |
|---------------|-----------------|---------------|------|
| 3042808 | October 4, 2011 | | |

FM Approvals LLC

J.E. Marquedant
Group Manager, Electrical

4 October 2011
Date