

FM Approvals  
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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

**T595XP-Aab. I/P Transducer.**

IS / I, II, III / 1 / ABCDEFG / T4 Ta = -40°C to +75 °C; - 431-990-055 Entity; Type 4X, IP65  
 I / 0 / Ex ia IIC / T4 Ta = -40°C to +75 °C; - 431-990-055 Entity; Type 4X, IP65  
 NI / I / 2 / ABCD / T4 Ta = -40°C to +75 °C; Type 4X, IP65  
 S / II, III / 2 / EFG T4 Ta = -40°C to +75 °C; Type 4X, IP65  
 I / 2 / IIC / T4 Ta = -40°C to +75 °C; Type 4X, IP65  
 XP / I / 1 / BCD / T6 Ta = -40°C to +75°C; Type 4X, IP65  
 DIP / II, III / 1 / EFG / T6 Ta = -40°C to +75°C; Type 4X, IP65  
 I / 1 / AEx d / IIB+H<sub>2</sub> / T6 Ta = -40°C to +75°C; Type 4X, IP65  
 II,III / 1 / AEx tD / 21 / T85°C Ta = -40°C to +75°C; Type 4X, IP65

a = Output pressure C, D or E.  
 b = Connection M, N or P.

Entity Parameters

Temperature class	Ta	Ii	Ui	Pi
T6	60 °C	50 mA	42.5 V	2.125 W
T6	55 °C	60 mA	38.8 V	2.328 W
T5	70 °C	60 mA	38.8 V	2.328 W
T5	55 °C	100 mA	30 V	3 W
T5	45 °C	120 mA	28 V	3.36 W
T4	85 °C	60 mA	38.8 V	2.328 W
T4	85 °C	100 mA	30 V	3.0 W
T4	80 °C	120 mA	28 V	3.36 W
T4	70 °C	150 mA	25.5 V	3.825 W
T5	85 °C	23 mA	6.75 V	0.155 W

Specific Conditions for use;

1. The I/P Transducer enclosure's metal base must be mounted as part of a bonded structure.
2. The I/P Transducer enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction and must be taken into account during installation.
3. The User shall permanently mark the protection type chosen. Once the type of protection has been marked it



Member of the FM Global Group

*shall not be changed.*

## Equipment Ratings:

Intrinsically Safe for Class I II & III, Division 1, Groups A, B, C, D, E, F and G; Intrinsically Safe for Class I, Zone 0, Group IIC; Nonincendive for Class I, Division 2, Groups A, B, C, and D; Suitable for Class II & III, Division 2, Groups E, F and G; and Suitable for Class I, Zone 2, Group IIC; Explosionproof for Class I, Division 1, Groups B, C and D; Dust-ignitionproof for Class II/III, Division 1, Groups E, F and G; Flameproof for Class I, Zone 1 Ex d IIB+H<sub>2</sub> T6 Ta = -40°C to +75°C; and Dust-ignitionproof DIP A21 IP65 T85°C hazardous locations, indoors and outdoors (Type 4X and IP65).

## FM Approved for:

ControlAir Inc  
Amherst, NH

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 3615	2006
Class 3810	2005
ANSI/ISA 60079-0	2005
ANSI/ISA 60079-1	2005
ANSI/ISA 60079-11	2009
ANSI/ISA 61241-0	2006
ANSI/ISA 61241-1	2006
ANSI/NEMA 250	1991
ANSI/IEC 60529	2004

Original Project ID: 3031829

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Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
081216	January 8, 2009		
3042023	March 6, 2012		

FM Approvals LLC



J.E. Marquedant  
Group Manager, Electrical

6 March 2012  
Date