

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

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

T590-Aab. I/P Converter.

IS / I / 1 / ABCD / T4 Ta = 75 °C; - 431-990-047 Entity I / 0 / AEx ia IIC / T4 Ta = 75 °C; - 431-990-047 Entity NI / I / 2 / ABCD /T4 Ta = 75 °C I / 2 / IIC / T4 Ta = 75 °C Where a = Output Pressure: C, D, E b = Connection: M, P

Entity Parameters

Entity Farametere				
Temperature class	Та	li	Ui	Pi
Т6	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 non-metallic cover of the I/P converter is considered to constitute an electrostatic discharge hazard. Clean only with a damp cloth.

2. The I/P converter enclosure's metal base must be mounted as part of a bonded structure.

3. The I/P converter 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.

4. The User shall permanently mark the protection type chosen. Once the type of protection has been marked it shall not be changed.



Equipment Ratings:

Intrinsically Safe for Class I, Division 1, Groups A, B, C, and D; intrinsically safe for Class I, Zone 0, Group IIC; suitable for Class I, Division 2, Groups A, B, C, and D; and suitable for Class I, Zone 2, Group IIC hazardous classified locations.

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 3810
 1995

 ANSI/ISA 60079-0
 2009

 ANSI/ISA 60079-11
 2009

Original Project ID: 3023940

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FM Approvals LLC

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6 March 2012

Date

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