CERTIFICATE OF CONFORMITY



1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. Certificate No: FM18US0171X

3. Equipment: T950-Abc

(Type Reference and Name) Current-to-Pressure Converter

4. Name of Listing Company: ControlAir Inc

5. Address of Listing Company: 8 Columbia Dr, Amherst, New Hampshire 03031,

USA

The examination and test results are recorded in confidential report number:

3009088 dated 17th December 2001

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:1998, FM Class 3610:2010, FM Class 3611:2004, FM Class 3615:2006, FM Class 3810:1995, ANSI/ISA 60079-0:2009, ANSI/ISA 60079-1:2005, ANSI/ISA 60079-11:2009, ANSI/NEMA 250:1991

- 8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
- 9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
- 10. Equipment Ratings:

Explosionproof for Class I Division 1, Groups B, C, and D, T6, Dust Ignitionproof for Class I, Division 1, Groups E, F, and G, T6; Flameproof for Class I, Zone 1, Group IIB + H2, T6 hazardous (classified) locations. Intrinsically safe for Class I, II, and III, Division 1, Groups C, D, E, F, and G, T4 and for Class I, Zone 0, Group IIB, T4 hazardous (classified) locations.

Nonincendive for Class I, Division 2, Groups A, B, C, D, T4, and Class II and III, Division 2, Groups F and G, T6 hazardous (classified) locations.

Certificate issued by:

J.E. Marquedant

VP, Manager, Electrical Systems

14 June 2018

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

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Member of the FM Global Group

US Certificate Of Conformity No: FM18US0171X

11. The marking of the equipment shall include:

XP / I / 1 / BCD / T6 Ta = -20 $^{\circ}$ C to 70 $^{\circ}$ C; DIP / II, III / 1 / EFG / T6 Ta = -20 $^{\circ}$ C to 70 $^{\circ}$ C; IS / I, II, III / 1 / CDEFG / T4 Ta = -40 $^{\circ}$ C to 70 $^{\circ}$ C - 431-990-025 Entity; I/1/AEx d IIB+H2 T6 Ta = -20 $^{\circ}$ C to 70 $^{\circ}$ C l/0/AEx ia IIB T4 Ta = -40 $^{\circ}$ C to 70 $^{\circ}$ C - 431-990-025 Entity; NI / I / 2 / ABCD /T4 Ta = -40 $^{\circ}$ C to 70 $^{\circ}$ C; S / II, III / 2 / FG / T6 Ta = -20 $^{\circ}$ C to 70 $^{\circ}$ C; Type 4X

12. Description of Equipment:

T950-Abc I/P Converter

XP / I / 1 / BCD / T6 Ta = -20 $^{\circ}$ C to 70 $^{\circ}$ C; DIP / II, III / 1 / EFG / T6 Ta = -20 $^{\circ}$ C to 70 $^{\circ}$ C; IS / I, II, III / 1 / CDEFG / T4 Ta = -40 $^{\circ}$ C to 70 $^{\circ}$ C - 431-990-025 Entity; I/1/AEx d IIB+H2 T6 Ta = -20 $^{\circ}$ C to 70 $^{\circ}$ C lo 70 $^{\circ}$ C - 431-990-025 Entity; NI / I /2 / ABCD /T4 Ta = -40 $^{\circ}$ C to 70 $^{\circ}$ C; S / II, III / 2 / FG / T6 Ta = -20 $^{\circ}$ C to 70 $^{\circ}$ C; Type 4X Entity Parameters: Ui (Vmax) = 30 V, Ii (Imax) = 125 mA, Pi = 0.70 W, Ci = 0 μF, Li = 0 mH b = Output Pressure Range: C, D, E, F c = Option: A, E, T

The T950 Converter converts a current or voltage input signal in to a linearly proportional pneumatic output pressure.

The I/P Converter has configuration switches and access to the configuration switches requires the Converter enclosure be opened. Calibration zero and span adjustments can not be made without the enclosure being opened.

The I/P Converter operates at on a supply of 4 to 20 mA Vdc.

The ambient operating temperature range of the T950 is -40°C to 70°C.

Enclosure

The enclosure measures approximately 3 I/2 inches in diameter and approximately 3 inches high. The enclosure is a chromate treated aluminum with epoxy paint and has the ability for conduit connections.

13. Specific Conditions of Use:

- 1. The I/P converter was found to be suitable for use with methane as the process medium.
- 2. The 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 and use.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

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US Certificate Of Conformity No: FM18US0171X

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
17 th December 2001	Original Issue.
14 th June 2018	Supplement 3: Report Reference: – RR214188 dated 14 th June 2018 Description of the Change: Minor model code update.

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