

# 1 TYPE EXAMINATION CERTIFICATE



2 Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU

3 Type Examination Certificate No: FM06ATEX0028X

4 Equipment or protective system: T950X-AabK I/P Converter  
(Type Reference and Name)

5 Name of Applicant: ControlAir, Inc.

6 Address of Applicant: 8 Columbia Drive  
Amherst, NH 03031  
United States of America

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Europe Ltd. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

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

3028313EC dated 23<sup>rd</sup> May 2007

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN 60079-0:2012+A11:2013, EN 60079-15:2005 and EN1127-1:2011

10 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.

11 This Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



II 3 G Ex nA nL IIC T6 Gc Ta= -40°C to 70°C

  
Digitally signed by Damien Mc Ardle  
DN: cn=Damien Mc Ardle, o=FM Approvals, ou=FM Approvals Europe Ltd, email=damien.mcardle@fmapprovals.com, c=IE  
Date: 2019.11.20 12:21:49 Z

**Damien Mc Ardle**  
Certification Manager, FM Approvals Europe Ltd.

Issue date: 20<sup>th</sup> November 2019

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

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# SCHEDULE

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**13 Description of Equipment or Protective System:**

The T950 is an electro-mechanical current to pressure converter. The unit operates on a 4 mA to 20 mA current loop. The circuitry for the T950X is contained in two multi-layer printed circuit boards that are mounted inside an aluminum flameproof enclosure.

The ambient operating temperature range of the T950 is  $T_a = -40^{\circ}\text{C}$  to  $70^{\circ}\text{C}$

**T950X-AabK. I/P Converter.**

Energy Limitation Parameters

$U_i = 30$  Volts,  $I_i = 125$  mA,  $P_i = 0.7$  W,  $C_i = 1$  nF,  $L_i = 2.2$  mH

a = Output Pressure Range: C, D, or E.

b = Options: A, B, T or E.

**14 Specific Conditions of Use:**

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

**15 Essential Health and Safety Requirements:**

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

**16 Test and Assessment Procedure and Conditions:**

This Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

**17 Schedule Drawings**

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by FM Approvals Europe Ltd.

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## 18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
23 <sup>rd</sup> May 2007	Original Issue.
03 <sup>rd</sup> November 2008	<u>Supplement 1:</u> Report reference: 3028313EC supplement 1 dated 03 <sup>rd</sup> November 2008. Description of Change: Minor changes to drawings.
13 <sup>th</sup> February 2009	<u>Supplement 2:</u> Report reference: 3028313EC supplement 2 dated 13 <sup>th</sup> February 2009. Description of change: Addition of Natural Gas media option
06 <sup>th</sup> January 2016	<u>Supplement 3:</u> Report reference: RR203193 dated 05 <sup>th</sup> January 2016. Description of change: Corrected errors in the CDL.
20 <sup>th</sup> November 2019	<u>Supplement 4:</u> Report reference: RR219403 dated 18 <sup>th</sup> November 2019. Description of change: Update of EN60079-0 to Edition 6, 2012:+A11:2013 and addition of EN1127-1:2011 standard. Certificate transferred from FM Approvals Ltd., notified body no. 1725, to FM Approvals Europe Ltd., notified body no. 2809.

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