

# 1 EU-TYPE EXAMINATION CERTIFICATE



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

3 EU-Type Examination Certificate No: FM08ATEX0048X

4 Equipment or protective system: T900-AbcK Current to Pressure 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, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, 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:

3034081 dated 19<sup>th</sup> January 2009

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 and EN 60079-11:2012

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 EU-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 1 G Ex ia IIB T4 Ta = -40°C to +70°C



Member of the FM Global Group

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: 2019.08.12 09:16:03 +01'00'

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

Issue date: 12<sup>th</sup> August 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 Type 900-A..K I/P Converter converts a current or voltage input signal to a linearly proportional pneumatic output pressure. It utilizes a closed loop pressure feedback system that closely controls output and compensates for vibration, mounting angle, temperature and supply pressure variations.

Energy Limitation Parameters follows:

$U_i = 30V$ ,  $I_i = 125mA$ ,  $P_i = 0.70W$ ,  $C_i = 1nF$ ,  $L_i = 2.2mH$

Model Code options:

b = Output Pressure Range: C, D, E, F, G or H

c = Connection: A, D or T

**14 Specific Conditions of Use:**

1. The I/P transducer enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

**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 EU-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 the Notified Body.

**18 Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
19 <sup>th</sup> January 2009	Original Issue.
12 <sup>th</sup> August 2019	<u>Supplement 1:</u> Report Reference: RR219503 dated 08 <sup>th</sup> August 2019

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# SCHEDULE



to EU-Type Examination Certificate No. FM08ATEX0048X

Date	Description
	Description of the Change: EN60079-0 updated to Edition 6 (2012+A11:2013) and EN60079-11 updated to Edition 6 (2012). EN60079-26 removed from standards list. Product Description in Section 13 updated to include electrical ratings and model code options. Certificate updated from EU-Type to EC-Type format. Certificate transferred from FM Approvals Ltd., notified body no. 1725, to FM Approvals Europe Ltd., notified body no. 2809.



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