



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: **FM09ATEX0031X**

4. Equipment or protective system:
(Type Reference and Name) **Type 595XP I/P Transducer**

5. Name of Applicant: **ControlAir LLC**

6. Address of Applicant **8 Columbia Dr, Amherst, New Hampshire 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 component 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:

3035877EC dated 16th April 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 IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018, EN 60079-11:2012,
EN 60529:1991+A1:2000+A2:2013

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:



See Annex

Certificate issued by:

 Richard
Zammit
Dublin, Ireland
2025.1.0

Certification Manager, FM Approvals Europe Ltd.

Date 25 June 2025

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

SCHEDULE

to Type Examination Certificate No. FM09ATEX0031X

13. Description of Equipment or Protective System:

The Type 595XP is an electro-mechanical current to pressure transducer. The unit operates on a 4 mA to 20 mA current loop. The ambient operating temperature range of the Type 595 is dependent on the energy limitation Parameters as specified below. The Type 595XP has an Ingress Protection rating of IP65.

The housing is constructed of epoxy-painted A380/A383 Aluminum Alloy. The housing is available with a threaded blank cover. The enclosure contains one M20 x 1.5 wiring entry. The housing is provided with internal grounding connection. An O-ring is provided between the cover and base for environmental protection. Two sintered Flame arrestors are press-fitted into the base of the housing.

See Annex for additional details.

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.

18. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
17 April 2009	Original Issue.
13 March 2013	<u>Supplement 1:</u> Report Reference: 3031829rev130124; dated 15 th February 2013. Description of Change: Add ½" 14 NPT / M20 x 1.5 conduit adapter.

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Date	Description
25 April 2013	<u>Supplement 2:</u> Report reference: 3031829rev130124; dated 15 th February 2013. Description of change: Correction to Supplement 1 – Change description should read: Add integral M20 x 1.5 entry thread to housing.
4 August 2014	<u>Supplement 3:</u> Report reference: 3031829rev140515 dated 28 th July 2014. Description of change: Minor change to ground screws not affecting the equipment safety.
22 December 2015	<u>Supplement 4:</u> Report reference: RR202976 dated 21 st December 2015. Description of change: Added additional model code options.
6 February 2017	<u>Supplement 5:</u> Report reference: RR203720 dated 01 st February 2017. Description of change: Model code changes. Update standards to latest version.
22 July 2019	<u>Supplement 6:</u> Report reference: RR219500 dated 19 th July 2019. Description of change: Marking updated due to change in NB number. Certificate transferred from FM Approvals Ltd., notified body no. 1725, to FM Approvals Europe Ltd., notified body no. 2809.
16 March 2020	<u>Supplement 7:</u> Report reference: RR222390 dated 10 th March 2020. Description of change: <ol style="list-style-type: none">1. Label updates due to change in company logo2. Company name change from ControlAir Inc. to ControlAir LLC.
24 August 2022	<u>Supplement 8:</u> Report Reference: PR460291 dated 02 nd August 2022. Description of the Change: <ol style="list-style-type: none">1. Update to standards used: EN IEC 60079-0, EN IEC 60079-7 and EN 60079-11.2. Update to the label to add UKCA certification details.3. Consolidation of descriptive documents.
25 June 2025	<u>Supplement 9:</u> Report Reference: RR246044 dated 24 June 2025. Description of the Changes: Minor documentation updates. Certificate reformatted.

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ANNEX

Type 595XP-Aabc. I/P Transducer

Markings:



II 3 G Ex ic IIC T6...T4 Gc Ta= -55°C to +85°C

Description of Equipment:

Model Code:

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

b = Connection: M, N, or P

c = Options K, K2, L or R.

Energy Limitation Parameters:

Temperature class*	Ta	I _i	U _i	P _i
T6	60°C	50 mA	42.5 V	0.53 W
T6	55°C	60 mA	38.8 V	0.58 W
T5	70°C	60 mA	38.8 V	0.58 W
T5	55°C	100 mA	30 V	0.75 W
T5	45°C	120 mA	28 V	0.84 W
T5	85°C	23 mA	6.75 V	0.038 W
T4	85°C	60 mA	38.8 V	0.58 W
T4	85°C	100 mA	30 V	0.75 W
T4	80°C	120 mA	28 V	0.84 W
T4	70°C	150 mA	25.5 V	0.95 W

Type 595XP-Aabc. I/P Transducer

Markings:

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II 3 G Ex ec ic IIC T6 Gc Ta= -55°C to +85°C

Description of Equipment:

Model Code:

a = Output Pressure: C, D, E
b = Connection: M, N or P
c = Options K, K2, L or R.

Input parameters:

U_i= 40 V ; I_i= 20 mA

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