

1. UNITED KINGDOM CONFORMITY ASSESSMENT TYPE EXAMINATION CERTIFICATE



2. Equipment or Protective systems intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3. Type Examination Certificate No: **FM21UKEX0090X**

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 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 Schedule 1 of the Regulations.

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

3035877EC-PR460291 dated 2nd August 2022

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 with the Regulations. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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



See Annex

Certificate issued by:

26 June 2025

Victor Aluko-Oginni
Certification Manager, FM Approvals Ltd.

Date

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

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F UKEX 029 (Jul/2024)



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SCHEDULE

to Type Examination Certificate No. FM21UKEX0090X

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:

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated 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 UKCA Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Regulations in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's UKCA 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 Approved Body.

18. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
6 September 2022	Original Issue.
26 June 2025	<u>Supplement 1:</u> Report Reference: RR246044 dated 24 June 2025. Description of the Change(s): Minor documentation updates. Certificate reformatted.

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SCHEDULE

to Type Examination Certificate No. FM21UKEX0090X

ANNEX

Type 595XP-Aabd. I/P Transducer

Markings:



II 3 G Ex ic IIC T* 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	Ii	Ui	Pi
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
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
T5	85 °C	23 mA	6.75 V	0.038 W

Type 595XP-Aabd. I/P Transducer

Markings:



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

Description of Equipment:

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SCHEDULE

to Type Examination Certificate No. FM21UKEX0090X

FM Approvals

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

Specific Conditions of Use:

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

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