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UNITED KINGDOM CONFORMITY ASSESSMENT

TYPE EXAMINATION CERTIFICATE



2 **Equipment or Protective systems intended for use in Potentially Explosive Atmospheres – UKSI 2016:1107 (as amended)**

3 **Type Examination Certificate No: FM21UKEX0090X**

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

5 **Name of Applicant: Controlair LLC**

6 **Address of Applicant: 8 Columbia Dr
Amherst
NH 03031
United States**

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 product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 and
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:



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

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



Digitally signed by Victor Aluko-Oginni
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Foxit PhantomPDF Version: 10.1.5

Victor Aluko-Oginni
Certification Manager, FM Approvals Ltd.

Issue date: 6th September 2022

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

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F UKEX 029 (Jan/21)



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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.

Type 595XP-Aabc. I/P Transducer.

II 3 G Ex ic IIC T6...T4 Gc Ta = -55°C to +85°C; IP65

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
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.

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

b = Connection: M, N, or P.

c = Options K, K2, L or R.

Input Parameters

Ui = 40 V; Ii = 20 mA

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:

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SCHEDULE

to Type Examination Certificate No. FM21UKEX0090X

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 FM Approvals Ltd.

18 **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
6 th September 2022	Original Issue.

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