

1 **UNITED KINGDOM CONFORMITY ASSESSMENT**
2 **UK TYPE EXAMINATION CERTIFICATE**

3 **Product Intended for use in Potentially Explosive Atmospheres**
4 **UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

5 Type Examination Certificate Number: **ExVeritas 21UKEX1020X** Issue: **1**

6 Product: SafeZone – PCU

7 Manufacturer: Cunningham Covers Limited

8 Address: Glenshane Industrial Park,
9 Tobermore Rd, Maghera,
10 Londonderry BT46 5DR

11 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

12 ExVeritas Limited Approved Body number 2585, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), 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.

13 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with:


EN IEC 60079-0: 2018 IEC/TS 60079-46:2017

Except in respect of those requirements listed at section 16 of the schedule to this certificate.

14 If the sign “X” is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

15 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

16 The marking of the equipment shall include the following:

 II 2 G Ex 60079-46 IIB/IIC T4 Gb T_{amb} -20°C to +40°C/+50°C

* Gas group marked is IIB or IIC dependant on components used.



No. 8613

On behalf of ExVeritas



S Clarke CEng MSc FIET
Managing Director

This certificate may only be reproduced in its entirety and without any change, schedule included.

The status of this certificate can be verified at www.exveritas.com

For help or assistance relating to this certificate, contact info@exveritas.com.

ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.

ExVeritas® is a registered trademark, unauthorised use will lead to prosecution.

Schedule

13 Description of Product

The SafeZone PCU is an assembly of ATEX/IECEx equipment. The PCU is a control system designed to be used with the SafeZone Pressurised Room (Habitat) to provide a temporary room that can reduce a Zone 1 or Zone 2 area to a safe area within the room. The assessment covers the Ex related aspects of the system, performance aspects are not considered. The system incorporates a fan to purge the habitat with clean air and then maintain an overpressure within the habitat. Gas detection is provided as part of the system.

The SafeZone PCU can be used at an upper ambient of either +40°C or +50°C dependant on the components used in the assembly and is marked accordingly.

13.1 Details of change

The following changes are introduced in issue 1 of the certificate:

- Inclusion of Gas Group IIC option.

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R2849/A/1	19-10-2021	0	Initial issue of the Prime Certificate
R3816/A/1	14-06-2023	1	Issue of the first variation, see section 13.1.

14.2 Compliance Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
*PCS HazLoc Components BOM IIB	17097	REL06	15/2/23
*PCS HazLoc Components BOM IIC	17175	REL02	15/2/23
Purge Control System Electrical Schematic (sheets 1 to 4)	16975	Rel05	15/08/17
Safezone PCS layout certification drawing	16803	REL02	22/06/15
Purge Control System I/S Loop verification drawing	16982	REL02	28/02/20
Purge control system Electrical schematic for 50°C (sheets 1 to 4)	17140	Rel01	13/10/2021
*Label Drawing	SAFE-022	B	19/04/2023

15 Specific Conditions of Use

15.1 Special Conditions for Safe Use

- The flameproof joints on the GUB03 enclosure, E2S sounder/beacon, E2S Airlock Strobe, Rotork airflow damper actuator and Hawke Connectors are not intended for repair. Contact the manufacturer.
- The JB3 gas detector enclosures, E2S sounder beacon, E2S Airlock Strobe, Ex Zone pushbutton station and Airlock Door Switches used may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.
- Do not separate connectors when energised.
- The protective caps supplied with the Hawke Connectors are to be fitted immediately following separation.

15.2 Routine tests

- None

Certificate: **ExVeritas 21UKEX1020X**

Issue **1**

This certificate may only be reproduced in its entirety and without any change, schedule included.
 For help or assistance relating to this certificate, contact info@exveritas.com.
 ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.
 ExVeritas® is a registered trademark, unauthorised use will lead to prosecution.

Schedule

16 Essential Health and Safety Requirements (Regulations Schedule 1)

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform ExVeritas of any modifications to the design of the product described by this schedule.