

1 EU - Type Examination Certificate

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 21ATEX1004X Issue: 1

4 Equipment: SafeZone – PCU

5 Manufacturer: Cunningham Covers Limited

6 Address: Glenshane Industrial Park,
Tobermore Rd, Maghera,
Londonderry BT46 5DR

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2804 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive


9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:

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

10 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.

11 This EU-Type Examination Certificate relates only to the design, construction, 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 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.

Schedule

13 Description of Equipment or Protective System

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 for gas group IIB or IIC and 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

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Issue 1

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Schedule

15 Conditions of Certification

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 Conditions for Use (Routine tests)

- None

16 Essential Health and Safety Requirements

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 the Notified Body of any modifications to the design of the product described by this schedule.