1 ATEX CAT 3G Type Examination Conformity Certificate

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

3 Certificate Number: ExVeritas 19 ATEX 0470X Issue: 0

4 Equipment: PE3 and PE3E Range of Enclosures

5 Manufacturer: Expo Technologies Ltd

6 Address: Unit 2, The Summit, Hanworth Road, Sunbury on Thames, Surrey, TW16 5DB, UK

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to. The assessments are recorded in ExVeritas project file number EXV2000.

8 The equipment has been assessed against the following Standards and found to comply:

EN 60079-0: 2018 EN 60079-2: 2014 EN 60079-31: 2014

9 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.

10 ExVeritas takes no responsibility for the validity of any information or data supplied by the manufacturer on which parts of the assessment may be based upon.

11 The marking of the equipment shall include the following:

Ⓔx II 3 G Ex pzc IIC T4 Gc

Ⓔx II 3 D Ex tc IIIC T135°C Dc Ex pzc IIIC T135°C Dc

UKAS PRODUCT CERTIFICATION

No. 8613

On behalf of ExVeritas

S D'Henin
Certification Manager

Schedule

12 Description of Equipment or Protective System

The Expo Technologies PE3 and PE3E range of Enclosures consisting of the PE2 or PE2E enclosure and accessory range as identified on component certificate number ExVeritas19ATEX0454U, fitted with internal apparatus as defined in this schedule.

For use in explosive gas atmospheres or in explosive dust atmospheres where the equipment is marked for pressurization, each enclosure will be fitted with a purge controller providing pressurization type "pzc" as appropriate, suitably ATEX certified as apparatus.

Selection of the purge controller, purge flow rate, and purge time are identified by reference to the enclosure volume as defined on drawing SD7952.

Components as defined in Expo Technologies drawings SD7960 "Contents for PE3 and PE3E Enclosures" and / or SD7961 "PE3 & PE3E Enclosures with Dust Protection" may be installed.

Both internal and external earthing facilities are provided.

Standard temperature range -20°C to +40°C with alternative increased range -20°C to +55°C marked when appropriate.

Alternative marking:

Enclosure may be manufactured containing intrinsically safe associated apparatus, in which case they shall be marked to include the appropriate intrinsic safety marking as appropriate, for example:

 II 3 (1) G Ex pzc [ia Ga] IIC T4 Gc

Where certified apparatus incorporating protection types flameproof, increased safety, intrinsic safety, encapsulation or Type "n" is incorporated onto or into the enclosure, the protection concepts may as an alternative to the marking of individual certified items on a label on the exterior of the enclosure, be incorporated into the pressurized enclosure overall marking code, in accordance with drawing SD7947.

Where apparatus is incorporated with a temperature class giving a higher surface temperature than T4 (i.e. T3, T2 or T 1) for Gas atmospheres or T135°C for Dust atmospheres, the temperature class shall be amended from T4 or T135°C to match the highest surface temperature class of the certified apparatus installed on or in the enclosure.

Where certified apparatus is incorporated that requires marking of the gas group other than IIC or dust group other than IIIC, the overall marking code shall be modified to reflect the most restrictive gas or dust group of the incorporated apparatus.

Where enclosures are manufactured that simultaneously comply with the requirements for explosive gas atmospheres and explosive dust atmospheres, the appropriate markings shall be listed separately as required by EN 60079-0:2018 Clause 29.6.

Schedule

13 Descriptive Documents

13.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R2000/A/2	18 Jul 2019	0	Initial issue of the Prime Certificate

13.2 Compliance Drawings:

Issue 0

Title:	Drawing No	Issue	Sheets	Date
Internal Configuration - Fans	SD7632	1	1 of 1	16/12/09
Protruding Sections	SD7633	1	1 of 1	16/12/09
Chassis Sizes	SD7634	1	1 of 1	1/3/10
Heat Dissipation — Configuration	SD7636	1	1 of 1	1/3/10
PE3 & PE3E Enclosure Labels	SD7946	5	11 of 11	15/07/19
Alternative marking PE3 and PE3E Enclosures	SD7947	4	1 of 1	15/07/19
Purge Test with no Internal Source of Release	SD7948	2	2 of 2	04/08/11
PE3 Battery Testing Procedure	SD7949	3	1 of 1	15/07/19
PE3 Approved Batteries	SD7950	3	1 of 1	15/07/19
Connection Facilities for PE3 and PE3E Enclosures	SD7951	3	1 of 1	15/07/19
Purging Conditions	SD7952	2	1 of 1	15/07/19
Thermostatic Heat Source Control	SD7956	3	1 of 1	15/07/19
Radio Sources for PE3 and PE3E Enclosures	SD7958	2	1 of 1	15/07/19
PE3 & PE3E Enclosed Volumes EV	SD7959	1	2 of 2	17/03/11
Contents for PE3 & PE3E Enclosures	SD7960	4	1 of 1	15/07/19
PE3 & PE3E Enclosures with Dust Protection	SD7961	4	2 of 2	15/07/19

14 Conditions of Certification

14.1 Special Conditions for Safe Use

Where the power to the pressurized enclosure is not automatically controlled by the purging control system, it is responsibility of the user to provide an appropriately certified means of isolation adjacent to the enclosure, marked with appropriate operating instructions. Alternatively, another equally effective means of isolation and associated operating procedure shall be provided.

The correct installation of intrinsically safe apparatus within the enclosure has not been assessed as part of this certification, and this certificate is not to be used as evidence that enclosures including intrinsically safe apparatus or associated apparatus meet all the relevant requirements for intrinsically safe systems.

14.2 Conditions of Manufacture

Enclosures shall be fitted with over-temperature limitation devices as shown on drawing SD7956.

Internal components must be installed in accordance with drawing SD7960 and SD7961 as appropriate.

Where associated intrinsically safe apparatus is fitted within the enclosure it must have a maximum ambient temperature rating of at least 55°C.

Schedule

This certificate shall be accompanied by a document, endorsed by Expo Technologies Ltd, defining the build of the enclosure and including a list of any certified equipment incorporated into the enclosure (including Item description, manufacturer, certificate number and ratings) and specification of the modifications (if any) performed to any internal components in order to fulfil the requirements laid out in the certified documents.

The special conditions of safe use or conditions of certification listed on the certificate of any piece of installed apparatus shall be conveyed to the user in an appropriate manner.

(Routine Tests)

For enclosures incorporating purge and pressurization control systems:

1 The pressurized enclosure shall be pressure tested at the pressures specified in the certified drawings.

2 The enclosure Leakage Rate shall be measured.

3 The manufacturer shall verify that opening the door during operation of the apparatus results in the pressure within the enclosure falling below the minimum specified overpressure, thus causing the appropriate alarm indication to be made.

15 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 8 and where required the report listed in section 13.1