

1 ATEX CAT 3 Conformity Certificate

- 2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 3 Certificate Number: ExVeritas 24ATEX1788X
- 4 Equipment: SmartPurge Z
- 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 EXV004830A.

Issue: 0

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

EN IEC 60079-0:2018	EN 60079-2:2014	EN IEC 60079-7:2015+A1:2018
IEC 60079-11:2023	EN IEC 60079-15:2019	IEC 60079-31:2022

- 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:

 $\langle Ex \rangle$ II 3 (3) G Ex ec ic nC [pzc Gc] IIC T6...T5 Gc $T_{amb} = -20^{\circ}C$ to $+40^{\circ}C$ for T6 $T_{amb} = -20^{\circ}C$ to $+58^{\circ}C$ for T5 $\langle Ex \rangle$ II 3 (3) D Ex tc [pzc Dc] IIIC T85°C Dc $T_{amb} = -20^{\circ}C$ to $+58^{\circ}C$

On behalf of ExVeritas

Peter Lauritzen Managing Director

This certificate may only be reproduced in its entirety and without any change. The certificate is only valid when it carries an original signature. For help or assistance relating to this certificate, contact: <u>info@exveritas.com</u> or view <u>www.exveritas.com</u> ExVeritas ApS, Severinsmindevej 6, 4420 Regstrup, Denmark. ExVeritas® is a registered trademark, unauthorised use will lead to prosecution.

FO-CB-DK-24 V5



Schedule

12 Description of Equipment or Protective System

The SmartPurge Z purge and pressurization system is an electrically operated device, designed to offer type of protection pressurized enclosure to unspecified electrical equipment or enclosures.

The SmartPurge Z controls the flow of purge media through the protected equipment. During purging, the system provides a predetermined flow rate of protective media for a pre-set period. After purging, the SmartPurge Z maintains the protected equipment pressurized.

The SmartPurge Z system provides one of the following methods of purge and/or pressurization operation:

- AL Automatic Leakage Compensation
- CF Continuous Flow
- **DP** Dust Pressurization
- LC Leakage Compensation

The SmartPurge Z includes a Relief Valve to allow the exit of the purging media and to protect the pressurized equipment from overpressure.

The SmartPurge Z utilises the following Ex Component part:

Part	Manufacturer	Model / Part No.	Certificate	Marking
Breather		II 2G Ex eb IIC Gb		
		CIME TOATEXT5500	II 1D Ex ta IIIC Da	
Terminals Phoenix Contact	Phoenix Contact	SPT 2.5/2-V5,0-EX		II 2 GD Ex eb IIC Gb
	SPT 2.5/3-V5,0-EX	REMA UTATEXO 195 U		

Additional manufacturing locations:

Qingdao Expo Mechanical and Electrical Technologies Co., Ltd.
617 Shilin Er Lu
Jimo District
Qingdao City
Shandong Province
266200
China

13 <u>Descriptive Documents</u>

13.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
4830/A/1	14.08.2024	0	Initial issue of the Prime Certificate

13.2 Compliance Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
SmartPurge Z main PCB Layout	EPC-B000-170	1	21/05/24
SmartPurge Z LED PCB Layout	EPC-B000-171	1	23/11/23
SmartPurge Z Main Control Board	EPC-BCT0-023	2	21/05/24
SmartPurge Z LED Board Schematic	EPC-BCT0-024	2	24/07/2024
SmartPurge Z System Block Diagram	SD8587	01	23/07/2024
SmartPurge Z LC Flow Chart	SD8605	01	10/07/2024
SmartPurge Z CF Flow Chart	SD8606	01	10/07/2024
SmartPurge Z General Assembly (ALCV Option)	SD8607	01	11/07/2024
SmartPurge Z Main PCB AC Version Part List	SD8609	02	07-Aug-24
SmartPurge Z Main PCB DC Version Part List	SD8610	02	07-Aug-24

Certificate: ExVeritas 24ATEX1788X

Issue 0

This certificate may only be reproduced in its entirety and without any change. The certificate is only valid when it carries an original signature. For help or assistance relating to this certificate, contact: <u>info@exveritas.com</u> or view <u>www.exveritas.com</u>

ExVeritas ApS, Severinsmindevej 6, 4420 Regstrup, Denmark.

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

FO-CB-24 V6



Schedule

SmartPurge Z LED PCB Parts List	SD8611	01	11-Jul-24
SmartPurge Z - Earthing Detail	SD8613	01	11/07/2024
SmartPurge Z Housing Construction Detail	SD8614	01	23/07/2024
SmartPurge Z Relief Valve (RLV) Construction Detail	SD8615	01	11/07/2024
SmartPurge Z Housing Construction Materials	SD8619	01	11-Jul-24
SmartPurge Z General Assembly (CF Option)	SD8622	01	11/07/2024
SmartPurge Z PCBA Wiring Layout	SD8623	01	01/08/2024
SmartPurge # ATEX / IECEx / UKEX Label	SD8625	01	11-Jul-24
SmartPurge # Model Number Structure	SD8626	01	11-Jul-24
SmartPurge Z Purge System Design Document	SD8627	01	11-Jul-24
SmartPurge Z Components	SD8628	01	11-Jul-24
SmartPurge Z Manual Extracts	SD8629	02	31-Jul-24
Modification for SmartPurge Z AC & PCB EPC-B000-170	SD8655	1	02-Aug-24

14 Conditions of Certification

- 14.1 Special Conditions for Safe Use
 - Potential electrostatic hazard, see instructions.
 - When polymeric cable gland is used on the side/external entry, the installation shall guarantee that the cable gland will be only exposed to a low risk of mechanical danger (< 4J impact).
 - When the SmartPurge Z is used with a pressurized enclosure, the assembly shall be evaluated according to the requirements of EN 60079-0, EN 60079-2, EN 60079-31, as applicable.
- 14.2 Manufacturers' responsibility (Routine tests)
 - The SmartPurge Z shall be subject to a routine dielectric strength test in accordance with clause 6.1 of EN IEC 60079-7:2015+A1:2018.
 - The SmartPurge Z shall be subject to a routine inspection of the conformal coating to determine that no damage is evident, in accordance with clause 10.4 of IEC 60079-11:2023 Ed 7.

15 <u>Essential Health and Safety Requirements</u>

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

Certificate: ExVeritas 24ATEX1788X

Issue 0

This certificate may only be reproduced in its entirety and without any change. The certificate is only valid when it carries an original signature. For help or assistance relating to this certificate, contact: <u>info@exveritas.com</u> or view <u>www.exveritas.com</u> ExVeritas ApS, Severinsmindevej 6, 4420 Regstrup, Denmark. ExVeritas® is a registered trademark, unauthorised use will lead to prosecution

Page 3 of 3

FO-CB-24 V6