



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx ITS 14.0004U

Issue No: 1

Certificate history:

Issue No. 1 (2017-07-10)

Issue No. 0 (2014-09-29)

Status: **Current**

Page 1 of 4

Date of Issue: **2017-07-10**

Applicant: **Purge Solutions Inc.**
592 Avenue E 1/2,
Alvin,
Texas 77511
United States of America

Equipment: **Range of Increased Safety Enclosures**

Optional accessory:

Type of Protection: **Increased Safety, Dust Protection by Enclosure**

Marking:

Ex eb IIC Gb

Ex tb III C Db IP66

Service Temp -40°C to +80°C

IECEX ITS 14.0004U

*Approved for issue on behalf of the IECEx
Certification Body:*

P Moss

Position:

Certification Officer

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Intertek Testing & Certification Limited
ITS House, Cleeve Road,
Leatherhead,
Surrey, KT22 7SB
United Kingdom





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Page 2 of 4

Manufacturer: **Purge Solutions Inc.**
592 Avenue E 1/2,
Alvin,
Texas 77511
United States of America

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7 : 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/ITS/ExTR14.0004/01](#)

Quality Assessment Report:

[NO/DNV/QAR09.0002/03](#)



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Certificate No: IECEx ITS 14.0004U

Issue No: 1

Date of Issue: 2017-07-10

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The range of increased safety enclosures are cabinets with hinged and clamped doors closed by stainless steel screwed clamps that can be manufactured in any size required, in a range of materials. In order to maintain the IP rating the clamps have a maximum distance apart of 355.6 mm. The maximum distance from the centre of the hinge/clamp to the corner of the enclosure is 101.6 mm. The enclosure can be fitted with an optional internal mounting plate if required and has both internal and external earthing points. The enclosure utilise a single piece gasket made from a medium density silicone that is fixed to the door of the enclosure with adhesive.

Only suitably certified Ex eb IIC Gb and Ex tb IIIC Db IP66 cable glands, blanking elements and adaptors with appropriate temperature ranges are to be used to seal entries into the enclosure.

SPECIFIC CONDITIONS OF USE: NO



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Certificate No: IECEX ITS 14.0004U

Issue No: 1

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Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

ISSUE 1

Replace the existing design entirely with a new enclosure design which includes the use of a joined strip gasket as an alternative gasket material, Increase distance from edge of door to centre of clamp to 4.0 inches (101.6 mm), increases the centre to centre distance of clamps to 14.0 inches (355.6 mm), permits the use of a gland plate and updates the applied standards from IEC 60079-7:2006 Ed 4.0 & IEC 60079-31:2008 Ed 1.0 to IEC 60079-7:2015 Ed 5.0 & IEC 60079-31:2013 Ed 2.0.

Annex:

[Annex to IECEX ITS 14.0004U issue 1.pdf](#)



Schedule of Drawings for Certificate: IECEX ITS 14.0004U Issue 1

Schedule of Limitations

Entries into the enclosure can be drilled by the end user within the constraints of the table found on page 8 of the user manual. The structural integrity of the enclosure between entries into the enclosure must be maintained and verified.

Clause 7.4.3 of IEC 60079-0 6th Edition regarding the avoidance of a build-up of electrostatic charge on equipment for Group III has not been addressed as part of this certification and must be addressed as part of the equipment certification.

The service temperature (maximum operating temperature) of the gasket is -40°C to +80°C and shall not be exceeded.

Technical Documents

Title:	Drawing No.:	Rev. Level:	Date:
*ATEX AND IECEX LABEL INCREASED SAFETY ENCLOSURES	SM-10009-D	D	25/OCT/13
*CLAMP & GASKET COMPRESSION DETAILS INCREASED SAFETY ENCLOSURES	SM-10010-A	A	12/DEC/13
*GLAND PLATE DETAILS INCREASED SAFETY ENCLOSURES	MM-11270-A	A	11/FEB/17
*4 SIDE CLAMP / HINGE DOOR DETAIL INCREASED SAFETY ENCLOSURE	SM-10005-F	F	15/OCT/13
*USERS MANUAL INCREASED SAFETY ENCLOSURES (pages 5, 6, 8 and 9)	DO-11209-H	H	07-Aug-14

*Note: An * is included before the title of documents that are new or revised.*

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