



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX ITS 14.0004U** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2017-07-10\)](#)
[Issue 0 \(2014-09-29\)](#)
Date of Issue: 2022-04-06
Applicant: **Purge Solutions Inc.**
592 Avenue E 1/2
Alvin
Texas 77511
United States of America
Ex Component: Range of Increased Safety Enclosures

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

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:

Mark Newman

Position:

Certificate Officer

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

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

intertek



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

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

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 component 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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

TEST & ASSESSMENT REPORTS:

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

Test Reports:

[GB/ITS/ExTR14.0004/00](#)

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

[GB/ITS/ExTR14.0004/02](#)

Quality Assessment Report:

[NO/PRE/QAR16.0018/02](#)



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Ex Component(s) covered by this certificate is described below:

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.

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 60079-0:2017 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.



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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

Issue 2:

Update to IEC 60079-0:2017 Edition 7.0 and IEC 60079-7:2017 Edition 5.1.

Update of QAR Reference.

Annex:

[Annex to IECEx ITS 14.0004U issue 2.pdf](#)



Schedule of Drawings for Certificate: IECEX ITS 14.0004U Issue 2

Technical Documents

Title:	Drawing No.:	Rev. Level:	Date:
*ATEX, IECEX AND UKEx LABEL INCREASED SAFETY ENCLOSURES	SM-10009-E-1	E	25/OCT/13
*ATEX, IECEX AND UKEx LABEL INCREASED SAFETY ENCLOSURES	SM-10009-E-2	E	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
*IOM MANUAL INCREASE SAFETY ENCLOSURES (pages 5, 6, 8 and 9)	DO-11209-I	I	05/MAY/21

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

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