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 EXV 19.0008X

Issue No: 0

Certificate history:
Issue No. 0 (2019-06-12)

Status: **Current**

Date of Issue: **2019-06-12**

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

Equipment: **CYCLOPS Y Purge Indicators PSCY - a - b - c - d - e - f**

Optional accessory:

Type of Protection: **Ex ib, Ex [pyb]**

Marking:

Ex ib [pyb] IIC T4 Gb

Ex ib [pyb] IIIC T135°C Db IP66

Approved for issue on behalf of the IECEx Certification Body: S L D'Henin

Position: Certification Manager

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.

Certificate issued by:

ExVeritas Limited
Units 16-18 Abenbury Way
Wrexham Ind. Est.
Wrexham LL 139UZ
United Kingdom

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Manufacturer:	**Purge Solutions, Inc.** 592 Avenue E 1/2, Alvin, Texas 77511 USA **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 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-2 : 2014-07 Edition:6	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"

*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/EXV/ExTR19.0006/00

Quality Assessment Report:

NO/PRE/QAR16.0018/01

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The CYCLOPS Y-Purge Indicators provide evidence of pressurization for a customer supplied enclosure with either leakage compensation or continuous dilution sources of protective gas.

The unit comes in one casing style, which is available in either stainless steel or anodized aluminium, machined from bar stock. The CYCLOPS Y-Purge Indicator monitors a pressure point and is flange mounted to the outer side wall of the enclosure it will be monitoring. All electrical and alarm connections to the CYCLOPS Y-Purge Indicator are made inside the purged enclosure and are made via linear suitably approved intrinsically safe barrier.

(Refer to the additional pages for model code and entity parameters)

SPECIFIC CONDITIONS OF USE: YES as shown below:

- When the purge indicator is used with a pressurized enclosure, the assembly shall be evaluated according to the requirements of IEC 60079-0 and IEC 60079-2.

Annex:

IECEx EXV 19.0008X - IECEx Certificate Annex.pdf

Description Continued:

Type Description:

PSCY - a - b - c - d - e - f

a - Supply Voltage:

1: Normal Voltage 12 Vdc

2: Normal Voltage 24 Vdc

b - Enclosure Material:

A - Anodized 6061-T6 Aluminium Machined Round Stock

S - 316 Stainless Steel Machined Round Stock

c - Hazardous Area Type:

G - Gas Hazardous Areas

D - Dust Hazardous Areas

d - Alarm Contact Type:

O - Normally Open

C - Normally Closed

e - Maximum Enclosure Volume:

1 - Up to 25 Cubic Foot (708 Litres)

2 - Up to 100 Cubic Foot (2,832 Litres)

3 - Up to 200 Cubic Foot (5,663 Litres)

4 - Up to 300 Cubic Foot (8,495 Litres)

f - Protective Gas Inlet Kit Type:

C - Continuous Dilution

L - Leakage Compensation

N - Not Needed, Customer to Supply

Entity parameters:

Parameter	Power input – Un = 12 Vdc	Power input – Un = 24 Vdc	Alarm
Ui =	15 V	24 V	10 V
Ii =	150 mA	174 mA	19 mA
Pi =	0.56 W	1.00 W	0.04 W
Ci =	0 F	0 F	0 F
Li =	0 H	0 H	0 H

Routine Tests:

N/A

ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.

Special Conditions for manufacture:
N/A

Manufacturer's documents:			
Title:	Drawing No.:	Rev. Level:	Date:
CUSTOMER WIRING DIAGRAM CYCLOPS Y OR Z – PURGE INDICATOR	DO-11009	F	2002/08/04
IOM MANUAL	DO-11146	G	2019/01/18
GENERAL ASSEMBLY CYCLOPS Y&Z – PURGE INDICATOR	DO-11045	G	2002/08/21
IS WIRING DIAGRAM FOR DIVISION 1 & ZONE 1 INSTALLATIONS CYCLOPS Y – PURGE INDIVATOR	DO-11108-C	-	2008/03/31
PC BOARD SCHEMATICS CYCLOPS Y&Z – PURGE INDICATOR	EB-11021-C-1	C	2005/04/11
PC BOARD BARE CYCLOPS Y&Z – PURGE INDICATOR	EB-11021-C-2	C	2005/04/11
PC BOARD TRACE LAYOUT CYCLOPS Y&Z – PURGE INDICATOR	EB-11021-C-3	C	2005/04/11
PC BOARD GENERAL ASSEMBLY CYCLOPS Y&Z – PURGE INDICATOR	EB-11021-C-4	C	2005/04/11
PURGE SOLUTIONS ATEX & IECEx CASING LABEL LAYOUT CYCLOPS Y – PURGE INDICATOR	MM-10002-K-3	-	2002/12/27
PURGE SOLUTIONS ATEX & IECEx CASING BRAND / LABEL LAYOUT CYCLOPS Y – PURGE INDICATOR	MM-10002-K-4	-	2002/12/27
DNV IECEx TEST REPORT	NO/DNV/ExTR09.007/00	-	2009/11/30
DNV IECEx TEST REPORT	NO/DNV/ExTR09.0007/01	-	2015/02/05
Declaration EN 60079-0 (National differences)	-	-	2019/04/08

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