



# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 06.0057X

Issue No: 4

Certificate history:

Status: **Current**

Issue No. 4 (2019-06-20)

Issue No. 3 (2017-08-01)

Date of Issue: **2019-06-20**

Page 1 of 4

Issue No. 2 (2016-05-31)

Issue No. 1 (2008-11-20)

Issue No. 0 (2006-09-22)

Applicant: **Ion Science Limited**

The Hive  
Butts Lane  
Fowlmere  
Royston  
SG8 7SL  
United Kingdom

Equipment: **TVOC and TVOC 2**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking:

**Ex ia IIC T4 Gb (-20°C Ta +50°C)**

Approved for issue on behalf of the IECEx  
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:  
(for printed version)

Date:

20-6-19

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:

**SGS Baseefa Limited**  
Rockhead Business Park  
Staden Lane  
Buxton, Derbyshire, SK17 9RZ  
United Kingdom





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Date of Issue: 2019-06-20 Page 2 of 4  
Manufacturer: **Ion Science Limited**  
The Hive  
Butts Lane  
Fowlmere  
Royston  
SG8 7SL  
United Kingdom

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 : 2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0  
**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

*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/BAS/ExTR06.0086/00](#) [GB/BAS/ExTR08.0239/00](#) [GB/BAS/ExTR12.0272/00](#)  
[GB/BAS/ExTR16.0136/00](#) [GB/BAS/ExTR19.0008/00](#)

#### Quality Assessment Report:

[GB/BAS/QAR07.0023/07](#)



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Certificate No: IECEX BAS 06.0057X

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Date of Issue: 2019-06-20

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

TVOC and TVOC 2 are wall mounted total volatile organic compound monitors designed to monitor the surrounding atmosphere for the presence of volatile organic compounds and provide both a local display of the concentration, and a corresponding 4-20mA signal for remote use.

They comprises electronic circuits and connectors on a PCB contained within an enclosure providing a degree of protection of at least IP20, together with a sensor mounted in a housing which protrudes from the bottom of the main enclosure. The sensor may be marked with Certificate numbers IECEX CSA 06.0006X or IECEX CSA 06.0005X.

The TVOC 2 is intended for use with MiniPID Sensor, marked Baseefa07ATEX0060U and IECEX BAS 07.0030U.

#### Input Parameters:

For Connector J1 (Power Supply):

$U_i = 18V$ ,  $I_i = 800mA$ ,  $P_i = 1.2W$ ,  $L_i = 0$  and  $C_i = 0$

For Connector J2 (4-20mA Output):

$U_i = 30V$ ,  $I_i = 200mA$ ,  $P_i = 1.2W$ ,  $L_i = 0$  and  $C_i = 0$ .

#### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Electrostatic discharge hazard. Refer to equipment instructions for guidance to minimise the risk of electrostatic discharge.



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Certificate No: IECEx BAS 06.0057X

Issue No: 4

Date of Issue: 2019-06-20

Page 4 of 4

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

### Variation 4.1

To permit update of assessment standard to IEC 60079-0:2017, introduction of the TVOC 2 version and introduction of a condition of use.

ExTR: **GB/BAS/ExTR19.0008/00**

File Reference: **18/0798**