



# 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 11.0014 issue No.:3

Status: **Current**

Date of Issue: 2016-01-15 Page 1 of 4

Certificate history:  
Issue No. 3 (2016-1-15)  
Issue No. 2 (2013-8-30)  
Issue No. 1 (2012-7-12)  
Issue No. 0 (2012-3-19)

Applicant: **Ion Science Limited**  
The Way  
Fowlmere  
Cambridgeshire  
SG8 7UJ  
United Kingdom

Electrical Apparatus: **Cub**  
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +55°C)**

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Technical Manager

Signature:  
(for printed version)

Date:

15 JANUARY 2016

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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Manufacturer: **Ion Science Limited**  
The Way  
Fowlmere  
Cambridgeshire  
SG8 7UJ  
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 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 60079-11 : 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/ExTR10.0259/01](#)  
[GB/BAS/ExTR16.0026/00](#)

[GB/BAS/ExTR12.0171/00](#)

[GB/BAS/ExTR12.0183/00](#)

##### Quality Assessment Report:

[GB/BAS/QAR07.0023/05](#)



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## Schedule

### EQUIPMENT:

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

The **Cub** is a self-contained battery powered hand-held gas detector intended to monitor the concentration of Volatile Organic Compounds (VOC) or various toxic gasses, dependent on which sensor is fitted. It produces alarms (audible, visual and vibrator) if preset levels are exceeded. The particular gas being monitored is shown on the display for a short time at switch on.

It is powered by a rechargeable battery, which is recharged by placing the gas detector into a Docking Station located in a non-hazardous area. Whilst in the Data or Calibration Docking Station, data can be transferred to and from other non-hazardous area equipment such as a computer. Whilst in the Charge Docking Station, only recharging is done. The apparatus must only be recharged when in a non-hazardous area, and using one of the Ion Science Docking Stations as shown in the drawings listed below.

The VOC sensor is from the MinPID range covered by Certificate IECEx BAS07.0030U and the other sensors are electrochemical cells which do not require individual certification. The sensors must only be changed when in a non-hazardous area.

The apparatus is not designed for use in oxygen enriched atmospheres.

### CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.



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

### Variation 3.1

To permit various circuit changes which do not adversely affect the original assessment.

ExTR: GB/BAS/ExTR16.0026/00

File Reference: 15/0918