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 BAS 06.0057 issue No.:2
Status:	**Current**
Date of Issue:	**2016-05-31**

Certificate history:
Issue No. 2 (2016-5-31)
Issue No. 1 (2008-11-20)
Issue No. 0 (2006-9-22)

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

Electrical Apparatus: **TVOC**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **IECEx BAS 06.0057**
Ex ia IIC T4 (-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: 31-5-16

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:

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 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"

*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

Quality Assessment Report:

GB/BAS/QAR07.0023/06

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Schedule

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

TVOC is a wall mounted total volatile organic compound monitor and is 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.
It 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.
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.

CONDITIONS OF CERTIFICATION: NO

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

Variation 2.1

To update certification to the latest versions of IEC 60079-0 and IEC 60079-11, complete with minor labelling changes.

ExTR: **GB/BAS/ExTR16.0136/00** File Reference: **16/0253**