



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 08.0070X issue No.:1

Status: **Current**

Certificate history:

Issue No. 1 (2012-12-17)

Issue No. 0 (2009-1-20)

Date of Issue: **2012-12-17** Page 1 of 4

Applicant: **Honeywell Analytics Limited**
Hatchpond House
4 Stinsford Road
Nuffield Estate
Poole
Dorset
BH17 ORZ
United Kingdom

Electrical Apparatus: **Sensepoint Toxic Gas Detector Head**
Optional accessory:

Type of Protection: **Flameproof, intrinsic safety and Dust**

Marking: **Ex d ia IIC T4 Gb (-40°C ≤Ta ≤+65°C)**
Ex tb IIIC T135°C Db (-40°C ≤Ta ≤+65°C) IP67

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

General Manager

Signature:
(for printed version)

Date:

17-12-12

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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Page 2 of 4

Manufacturer: **Honeywell Anaytics Limited**
Hatchpond House
4 Stinsford Road
Nuffield Estate
Poole
Dorset
BH17 ORZ
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 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011-06 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/ExTR08.0141/00

GB/BAS/ExTR08.0142/00

GB/BAS/ExTR12.0262/00

Quality Assessment Report:

GB/BAS/QAR07.0043/03



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Certificate No.: IECEx BAS 08.0070X

Date of Issue: 2012-12-17

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Sensepoint Toxic Gas Detector Head comprises a cylindrical enclosure manufactured in two parts from moulded glass reinforced plastic. The front section contains an electrochemical cell mounted on a printed circuit board behind a hydrophobic filter. The rear section is potted and has pins exiting the potting to power the electrochemical cell printed circuit board, and has a male thread for attachment to a suitable enclosure or conduit. Embedded in the potting is another printed circuit board and components and integral cables exit the enclosure at the threaded end. The embedded PCB provided an intrinsically safe supply to the electrochemical cell

The detector head may be provided with an optional gas collecting cone and types of weather housings around the sinter.

The detector head is rated up to 32V 0.9W.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The detector head must be protected from impact.
2. The apparatus must not be used in atmospheres containing greater than 21% oxygen.
3. The integral supply leads must be mechanically protected and terminated in a terminal or junction facility suitable for the area classification if the installation.
4. The terminal box and any shrouding metalwork (when used) must be effectively earthed.
5. The Sensepoint Toxic Gas Detector Head is considered to present a potential electrostatic risk and must not be located in high air flows or rubbed.
6. The front cover must not be removed when a dust hazard exists and must be fully tightened when replaced.
7. The Sensepoint Toxic Gas Detector Head is designed to be mounted vertically with the Gas Sensor facing downwards.



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Certificate No.: IECEx BAS 08.0070X

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Page 4 of 4

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

Variation 1.1

The equipment covered by this certificate has been reviewed against the additional design and test requirements of IEC 60079-0: 2011 Edition 6, IEC 60079-11: 2011 and IEC 60079-31: 2008 Edition 1 (superseding IEC 61241-1 for dust hazards), and compliance is confirmed.

The unit is to be marked with the following amended marking:-

Ex d ia IIC T4 Gb (-40°C ≤Ta ≤+65°C)

Ex tb IIIC T135°C Db (-40°C ≤Ta ≤+65°C) IP67

ExTR: **GB/BAS/ExTR12.0262/00**

File Reference: **12/0468**