



EC - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC

- EC - Type Examination Certificate Number: **Baseefa08ATEX0263X**
- Equipment or Protective System: **Sensepoint Toxic Gas Detector Head**
- Manufacturer: **Honeywell Analytics limited**
- Address: **4 Stinsford Road, Nuffield Estate, Poole, Dorset, BH17 0RZ**
- This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR08.0141/00 & GB/BAS/ExTR08.0142/00**
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- IEC 60079-0: 2007 EN 60079-0: 2006 EN 60079-1: 2007 EN 60079-11: 2007 EN 61241-1: 2004**
- except in respect of those requirements listed at item 18 of the Schedule.
- If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- The marking of the equipment or protective system shall include the following :

Ex II 2GD Ex d ia IIC T4 Gb Ex tb IIIC A21 IP67 T135°C Db (T_{amb} -40°C to + 65°C)

This certificate may only be reproduced in its entirety, without any change, schedule included.


Baseefa Customer Reference No. 0981

Project File No. 08/0218

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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R S SINCLAIR

DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number Baseefa08ATEX0263X

15 Description of Equipment or Protective System

The Sensepoint Toxic Gas Detector Head comprises a cylindrical enclosure manufactured in three 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; 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.

16 Report Number

Baseefa Certification Reports: GB/BAS/ExTR 08.0141/00 and GB/BAS/ExTR 08.0142/00

17 Special Conditions for Safe Use

- 1 The detector head must be protected from impact.
- 2 The detector head 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 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 detector head is designed to be mounted vertically with the gas sensor facing downwards.

18 Essential Health and Safety Requirements

The detector head has been assessed for compliance with the standards indicated in item 9 only. If used in a safety system the function and performance of the detector head is to be determined as suitable by the installer or end user.

All other relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
*2106E0002	2	11	15/08/08	Optional weather protection components
2106E0003	1	8	18/08/08	General Arrangement Sensepoint Toxic Gas Sensor
2106E0004	1	2	13.10.97	Sensepoint Toxic Gas Sensor Electrochemical Cells
*2106E0006	1	2	26/08/08	Sensepoint Rear moulding M20 Only
2106E0020	1	4	19.2.98	Cell Driver A Circuit
2106E0021	1	3	19.3.98	Cell Driver A Track Layout
2016E0022	1	4	19.3.98	Cell Driver A Component Layout



Number	Sheet	Issue	Date	Description
2106E0023	1	3	16.1.98	Cell Driver A Circuit
2106E0024	1	3	19.3.98	Cell Driver A Track Layout
2106E0025	1	2	13.10.97	Cell Driver A Component Layout
2106E0026	1	2	05.07.06	Voltage Clamp Circuit (Current Limited)
2106E0027	1	3	20.06.06	Alternative pcb (Current Limited)
2106E0028	1	5	29.09.08	General Arrangement Voltage Clamp (Current Limited)

* These drawings are common to IECEx BAS 08.0068X, IECEx BAS 08.0070X and Baseefa 08ATEX0265X.

All drawings are held with IECEx BAS08.0070X.



SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa08ATEX0263X/1**
- 4 Equipment or Protective System: **Sensepoint Toxic Gas Detector Head**
- 5 Manufacturer: **Honeywell Analytics Limited**
- 6 Address: **Hatchpond House, 4 Stinsford Road, Nuffield Estate,
Poole, Dorset, BH17 ORZ**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa08ATEX0263X** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- 8 Item 9 of the original Certificate is replaced by “Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0: 2012**
EN 60079-1: 2007
EN 60079-11: 2012
EN 60079-31: 2009
- except in respect of those requirements listed at item 18 of the Schedule.”
- 9 The marking of the equipment has changed from the original Certificate and shall include the following:
- Ex II 2 G D Ex d ia IIC T4 Gb (-40°C ≤Ta ≤+65°C)**
Ex tb IIIC T135°C Db (-40°C ≤Ta ≤+65°C) IP67

This certificate shall be held with the original certificate and may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0981**

Project File No. **12/0468**

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13

Schedule

14

Certificate Number Baseefa08ATEX0263X/1

15

Description of the variation to the Equipment or Protective System

Variation 1.1

The equipment covered by this certificate has been reviewed against the additional design and test requirements of EN 60079-0: 2012, EN 60079-11: 2012 and EN 60079-31: 2009 (superseding EN 61241-1), and compliance is confirmed.

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

⊕ II 2 G D Ex d ia IIC T4 Gb (-40°C ≤Ta ≤+65°C)
Ex tb IIIC T135°C Db (-40°C ≤Ta ≤+65°C) IP67

16

Report Number

Baseefa Certification Report GB/BAS/ExTR12.0262/00

17

Specific Conditions of Use

None additional to those listed previously

18

Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19

Drawings and Documents

Number	Sheet	Issue	Date	Description
* 2106E0003	1	9	02/10/12	General Assembly, Sensepoint Toxic Gas Detector
# 2106E0002	2	12	02/10/12	General Assembly, PPM Version & Weather Protection

* This drawing is common to, and held with, IECEx BAS 08.0070X.

This drawing is common to Baseefa08ATEX0263X, Baseefa08ATEX0264X, IECEx BAS 08.0069X and IECEx BAS 08.0070X and is now held with IECEx BAS 08.0068X.

Note. Drawing 2106E0006 (thread adaptor) is also common to Baseefa08ATEX0265X, Baseefa08ATEX0263X and IECEx BAS 08.0068X, and is held with IECEx BAS 08.0070X, but is not affected by this variation.