



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

3 EC - Type Examination Certificate Number: **Baseefa08ATEX0316X**

4 Equipment or Protective System: **A Type XCD Gas Sensor Head**

5 Manufacturer: **Honeywell Analytics Inc.**

6 Address: **405 Barclay Boulevard, Lincolnshire, IL 60069, USA.**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 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/ExTR08.0220/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

IEC 60079-0: 2007

EN 60079-1: 2007

EN 61241-1: 2004

except in respect of those requirements listed at item 18 of the Schedule.

10 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.

11 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.

12 The marking of the equipment or protective system shall include the following :

⊕ II 2 GD Ex d IIC T6 (Ta -40°C to +65°C) Gb Ex tb IIIC T85°C Db IP6X A21

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

Baseefa Customer Reference No. **5989**

Project File No. **08/0261**

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



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Schedule

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Certificate Number Baseefa08ATEX0316X

15 Description of Equipment or Protective System

The Type XCD Gas Sensor Head comprises a sensor housing and a sensor cartridge manufactured from stainless steel. The sensor housing has potted integral leads and male threads at one end and male contact pins to supply power and signal to the sensor cartridge at the other end. The sensor cartridge has a potted gas sensor with female contact sockets and a sinter disk.

The sensor housing and sensor cartridge are held together by a threaded clamping ring with a locking screw.

The XCD Gas Sensor Head is rated up to 4V, 250mA, 1W.

16 Report Number

Baseefa Certification Report: GB/BAS/ExTR08.0220/00

17 Special Conditions for Safe Use

- 1 The integral supply cables is to be protected from impact and be suitably terminated.
- 2 The attachment thread has a 3mm wide undercut. This shall be taken into consideration if the sensor is attached to a flameproof enclosure in order to maintain the minimum engaged thread length.
- 3 Equipotential bonding shall be provided by the mounting arrangements.
- 4 The sensor cartridge to housing joint maximum gap is 0.035mm which is less than that permitted. This joint shall not be enlarged in service.

18 Essential Health and Safety Requirements

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

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
3001EA027	1	8	03.03.09	XCD GAS Sensor Head General Assembly
3001EA027	2	8	03.03.09	XCD GAS Sensor Head General Assembly
3001EA052	1	1	04.11.08	Sensor Body M25
3001EA051	1	1	04.11.08	Sensor Cartridge
3001EA050	1	1	04.11.08	Cartridge Retaining Ring
3001EA049	1	2	03.03.09	Sinter Details
3001EA053	1	2	04.03.09	Marking Details



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa08ATEX0316X/1**

4 Equipment or Protective System: **A Type XCD Gas Sensor Head**

5 Manufacturer: **Honeywell Analytics Inc.**

6 Address: **405 Barclay Boulevard, Lincolnshire, IL 60069, USA.**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa08ATEX0316X** 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.

This supplementary certificate shall be held with the original certificate.

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

Baseefa Customer Reference No. **5989**

Project File No. **09/0232**

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Certificate Number Baseefa08ATEX0316X/1

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Description of the variation to the Equipment or Protective System

Variation 1.1

To permit the use of a weather guard to provide ingress protection IPX6.

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Report Number

Baseefa Certification Report GB/BAS/ExTR08.0059/00

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Additional Special Conditions for Safe Use

1. When fitted with the supplied weather guard, the sensor head must be mounted so that the sinter is pointing downward to provide ingress protection IPX6.
2. The weather guard is a potential electrostatic charging hazard. The manufacturer's instructions should be observed.

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
3001EA056	1	1	03.04.09	Weather Guard
3001EA053	1	3	02.04.09	Certification Label



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa08ATEX0316X/2**

4 Equipment or Protective System: **A Type XCD Gas Sensor Head**

5 Manufacturer: **Honeywell Analytics**

6 Address: **405 Barclay Boulevard, Lincolnshire, Illinois 60069 USA**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa08ATEX0316X** 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.

This supplementary certificate shall be held with the original certificate.

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

Baseefa Customer Reference No. **5989**

Project File No. **11/0801**

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Certificate Number Baseefa08ATEX0316X/2

15 Description of the variation to the Equipment or Protective System

Variation 2.1

Introduction of an alternative +75°C upper ambient temperature rating, with a corresponding change in temperature class to T4/T135°C.

Variation 2.2

The equipment covered by this certificate has been reviewed against the additional design and test requirements of IEC 60079-0: 2011 and EN 60079-31: 2009 (superseding EN 61241-1), and compliance is confirmed.

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

⊕ II 2 GD Ex d IIC T6 (Ta -40°C to +65°C) Gb
T4 (Ta -40°C to +75°C)
Ex tb IIIC T85°C (Ta -40°C to +65°C) Db IP6X
T135°C (Ta -40°C to +75°C)

16 Report Number

Baseefa Certification Report GB/BAS/ExTR12.0123/00

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	Issue	Date	Description
3001EA053	6	03/MAY/12	Label

This drawing is common to, and is held with, IECEx BAS 08.0104X