



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 08.0071X** issue No.: **2**

Status: **Current**

Date of Issue: **2013-03-05** Page 1 of 4

Certificate history:
Issue No. 2 (2013-3-5)
Issue No. 1 (2008-12-11)
Issue No. 0 (2008-11-10)

Applicant: **Crowcon Detection Instruments Limited**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Electrical Apparatus: **Type IREX Gas Detector**
Optional accessory:

Type of Protection: **Flameproof**


Marking: **Ex d IIB +H₂ T6 Gb (T_{amb} = - 40°C to + 50°C) or**
Ex d IIB +H₂ T4 Gb (T_{amb} = - 40°C to + 75°C)

Approved for issue on behalf of the IECEx
Certification Body:

 R S Sinclair 

Position: **General Manager**

Signature:
(for printed version)



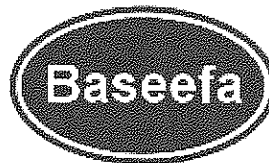
5/3/13

Date:

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





IECEX Certificate of Conformity

Certificate No.: IECEx BAS 08.0071X

Date of Issue: 2013-03-05

Issue No.: 2

Page 2 of 4

Manufacturer: **Crowcon Detection Instruments Limited**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
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 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

*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:

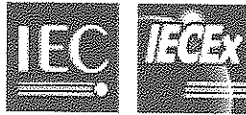
GB/BAS/ExTR08.0147/00

GB/BAS/ExTR08.0249/00

GB/BAS/ExTR13.0008/00

Quality Assessment Report:

GB/BAS/QAR06.0070/03



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 08.0071X

Date of Issue: 2013-03-05

Issue No.: 2

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type IREX Gas Detector comprises a stainless steel rear housing with a bolt-on stainless steel endplate. A detector window is fitted to the front of the housing and is clamped in place. The housing contains an optics and stacked PCB assembly.

The sensor is rated up to 32V, 5W.

A cable entry hole is provided as specified on the certified drawings for the accommodation of a flameproof cable entry device, with or without the interposition of a flameproof thread adapter.

The cable entry device and thread adapter shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The equipment must be earthed using the cable gland and steel armoured cable.



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 08.0071X

Date of Issue: 2013-03-05

Issue No.: 2

Page 4 of 4

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

Variation 2.1

The equipment covered by this certificate has been reviewed against the additional design and test requirements of IEC 60079-0: 2011, Edition 6 and compliance is confirmed.

Variation 2.2

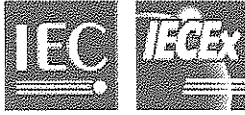
The unit is to be marked with the following amended coding:-

Ex d IIB +H₂ T6 Gb (T_{amb} = - 40°C to + 50°C) or

Ex d IIB +H₂ T4 Gb (T_{amb} = - 40°C to + 75°C)

ExTR: GB/BAS/ExTR13.0008/00

File Reference: 12/1009



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: **IECEX BAS 08.0071X** issue No.: **1**

Status: **Current**

Date of Issue: **2008-12-11** Page 1 of 4

Certificate history:

Issue No. 1 (2008-12-11)
Issue No. 0 (2008-11-10)


Applicant: **Crowcon Detection Instruments Limited**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Electrical Apparatus: **Type IREX Gas Detector**
Optional accessory:

Type of Protection: **Flameproof**

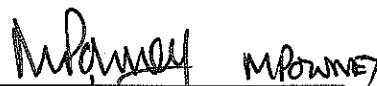
Marking: **IECEX BAS 08.0071X**
Ex d IIB +H2 T6 (Tamb = - 40°C to + 50°C) or
Ex d IIB +H2 T4 (Tamb = - 40°C to + 75°C)

Approved for issue on behalf of the IECEx
Certification Body:

 R S Sinclair

Position: **Managing Director**

Signature:
(for printed version)



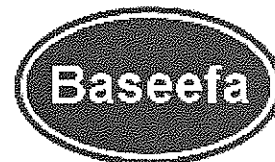
11/12/08

Date:

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Certificate issued by:

Baseefa
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: IECEx BAS 08.0071X

Date of Issue: 2008-12-11

Issue No.: 1

Page 2 of 4

Manufacturer: **Crowcon Detection Instruments Limited**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

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 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0

IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

*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/ExTR08.0147/00
GB/BAS/ExTR08.0249/00

Quality Assessment Report:

GB/BAS/QAR06.0070/01



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 08.0071X

Date of Issue: 2008-12-11

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type IREX Gas Detector comprises a stainless steel rear housing with a bolt-on stainless steel endplate. A detector window is fitted to the front of the housing and is clamped in place. The housing contains an optics and stacked PCB assembly.

The sensor is rated up to 32V, 5W.

A cable entry hole is provided as specified on the certified drawings for the accommodation of a flameproof cable entry device, with or without the interposition of a flameproof thread adapter.

The cable entry device and thread adapter shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The equipment must be earthed using the cable gland and steel armoured cable.



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 08.0071X

Date of Issue: 2008-12-11

Issue No.: 1

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

Variant 1.1

Introduction of an alternative, cast and then machined, stainless steel housing.

ExTR: GB/BAS/ExTR08.0249/00

File Reference: 08/0804



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INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
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Certificate No.: IECEx BAS 08.0071X issue No.: 0 Certificate history:

Status: **Current**

Date of Issue: **2008-11-10** Page 1 of 3

Applicant: **Crowcon Detection Instruments Limited**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Electrical Apparatus: **Type IREX Gas Detector**
Optional accessory:

Type of Protection: **Flameproof**

Marking: **IECEX BAS 08.0071X**
Ex d IIB +H2 T6 (Tamb = - 40°C to + 50°C) or
Ex d IIB +H2 T4 (Tamb = - 40°C to + 75°C)

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

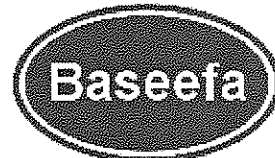
Position: Managing Director

Signature: **DBearley**
(for printed version)

Date: **10/11/08**

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Baseefa
Rockhead Business Park
Staden Lane
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Derbyshire
SK17 9RZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: IECEX BAS 08.0071X

Date of Issue: 2008-11-10

Issue No.: 0

Page 2 of 3

Manufacturer: **Crowcon Detection Instruments Limited**
2 Blacklands Way
Abingdon Business Park
Abingdon
Oxfordshire
OX14 1DY
United Kingdom

Manufacturing location(s):

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Edition: 4.0
IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

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Test Report:

GB/BAS/ExTR08.0147/00

Quality Assessment Report:

GB/BAS/QAR06.0070/01



IECEX Certificate of Conformity

Certificate No.: IECEx BAS 08.0071X

Date of Issue: 2008-11-10

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

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CONDITIONS OF CERTIFICATION: YES as shown below:

1. The equipment must be earthed using the cable gland and steel armoured cable.