



# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 08.0028X issue No.:4

Status: Current

Date of Issue: 2016-10-17 Page 1 of 4

Certificate history:  
Issue No. 4 (2016-10-17)  
Issue No. 3 (2014-8-6)  
Issue No. 2 (2012-12-6)  
Issue No. 1 (2008-11-6)  
Issue No. 0 (2008-9-17)

Applicant: **Crowcon Detection Instruments Ltd**  
172 Brook Drive  
Milton Park  
Abingdon  
Oxfordshire  
OX14 4SD  
United Kingdom

Equipment: TXgard-IS+  
Optional accessory:


Type of Protection: Intrinsic Safety ia

Marking: Ex ia IIC T4 Ga (-40°C to +65°C)

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

Position: Technical Manager

Signature:  
(for printed version)

  
18 NOVEMBER 2016

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](http://www.iecex.com).

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 08.0028X

Date of Issue: 2016-10-17

Issue No.: 4

Page 2 of 4

Manufacturer: **Crowcon Detection Instruments Limited**  
172 Brook Drive  
Milton Park  
Abingdon  
Oxfordshire  
OX14 4SD  
**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 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition: 6.0

*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/ExTR08.0063/00  
GB/BAS/ExTR16.0305/00

GB/BAS/ExTR08.0122/00

GB/BAS/ExTR12.0316/00

##### Quality Assessment Report:

GB/BAS/QAR06.0070/06



# IECEX Certificate of Conformity

Certificate No.: IECEx BAS 08.0028X

Date of Issue: 2016-10-17

Issue No.: 4

Page 3 of 4

## Schedule

### EQUIPMENT:

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

The TXgard-IS+ is a gas detector capable of detecting a wide range of non-combustible gasses. The sensor which is in a housing attached to the side of the TXgard-IS+ determines the gas types that the apparatus will detect. The Personality Module inside the detector is either an Oxygen Personality Module that is specific to the oxygen detecting variant, or is a Toxic Gas Personality Module that is common to all toxic gas detecting variants. Calibration and the selection of different features is carried out via a three button keypad and external LCD. The detector uses a two terminal 4-20mA loop for power input and signal output.

Input Parameters:

$$U_i = 28V \quad C_i = 0$$

$$I_i = 93mA \quad L_i = 0$$

$$P_i = 0.66W$$

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. To minimize the risk of electrostatic discharge the apparatus must only be cleaned using a damp cloth.



# IECEX Certificate of Conformity

Certificate No.: IECEx BAS 08.0028X

Date of Issue: 2016-10-17

Issue No.: 4

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

### Variation 4.1

To permit minor electrical and mechanical changes that do not affect the existing assessment.

ExTR: GB/BAS/ExTR16.0305/00

File Reference: 16/0385



# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 08.0028X issue No.:3

Status: **Current**

Date of Issue: **2014-08-06** Page 1 of 4

Certificate history:  
Issue No. 3 (2014-8-6)  
Issue No. 2 (2012-12-6)  
Issue No. 1 (2008-11-6)  
Issue No. 0 (2008-9-17)

Applicant: **Crowcon Detection Instruments Ltd**  
172 Brook Drive  
Milton Park  
Abingdon  
Oxfordshire  
OX14 4SD  
United Kingdom

Electrical Apparatus: **TXgard-IS+**  
Optional accessory:

Type of Protection: **Intrinsic Safety ia**

Marking: **Ex ia IIC T4 Ga (-40°C to +65°C)**

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair *pp M Pannoy*

Position: General Manager

Signature:  
(for printed version)

*M Pannoy*  
\_\_\_\_\_  
6/8/14

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 08.0028X

Date of Issue: 2014-08-06

Issue No.: 3

Page 2 of 4

Manufacturer: **Crowcon Detection Instruments Limited**  
172 Brook Drive  
Milton Park  
Abingdon  
Oxfordshire  
OX14 4SD  
**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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-26 : 2006</b> Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*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/ExTR08.0063/00

GB/BAS/ExTR08.0122/00

GB/BAS/ExTR12.0316/00

##### Quality Assessment Report:

GB/BAS/QAR06.0070/03



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 08.0028X

Date of Issue: 2014-08-06

Issue No.: 3

Page 3 of 4

## Schedule

### EQUIPMENT:

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

The TXgard-IS+ is a gas detector capable of detecting a wide range of non-combustible gasses. The sensor which is in a housing attached to the side of the TXgard-IS+ determines the gas types that the apparatus will detect. The Personality Module inside the detector is either an Oxygen Personality Module that is specific to the oxygen detecting variant, or is a Toxic Gas Personality Module that is common to all toxic gas detecting variants. Calibration and the selection of different features is carried out via a three button keypad and external LCD. The detector uses a two terminal 4-20mA loop for power input and signal output.

#### Input Parameters:

$$U_i = 28V \quad C_i = 0$$

$$I_i = 93mA \quad L_i = 0$$

$$P_i = 0.66W$$

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. To minimize the risk of electrostatic discharge the apparatus must only be cleaned using a damp cloth.



# IECEX Certificate of Conformity

Certificate No.: IECEx BAS 08.0028X

Date of Issue: 2014-08-06

Issue No.: 3

Page 4 of 4

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

### Variation 3.1

This issue permits existing information (for example on Schedule Drawings) to be replaced by the revised certificate holders address. No other changes may be made to the certified design

File Reference: 14/0639





# 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](http://www.iecex.com)

Certificate No.: **IECEX BAS 08.0028X** issue No.:2

Status: **Current**

Date of Issue: **2012-12-06**

Page 1 of 4

Certificate history:  
Issue No. 2 (2012-12-6)  
Issue No. 1 (2008-11-6)  
Issue No. 0 (2008-9-17)

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

Electrical Apparatus: **TXgard-IS+**  
Optional accessory:

Type of Protection: **Intrinsic Safety ia**

Marking: **Ex ia IIC T4 Ga (-40°C to +65°C)**

Approved for issue on behalf of the IECEx  
Certification Body:

R S Sinclair

Position:

General Manager

Signature:  
(for printed version)

Date:

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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





# IECEX Certificate of Conformity

Certificate No.: IECEX BAS 08.0028X

Date of Issue: 2012-12-06

Issue No.: 2

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 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition: 6.0

**IEC 60079-11 : 2011-06** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"  
Edition: 6.0

**IEC 60079-26 : 2006** Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga  
Edition: 2

*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/ExTR08.0063/00

GB/BAS/ExTR08.0122/00

GB/BAS/ExTR12.0316/00

#### Quality Assessment Report:

GB/BAS/QAR06.0070/03



# IECEX Certificate of Conformity

Certificate No.: IECEx BAS 08.0028X

Date of Issue: 2012-12-06

Issue No.: 2

Page 3 of 4

## Schedule

### EQUIPMENT:

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

The TXgard-IS+ is a gas detector capable of detecting a wide range of non-combustible gasses. The sensor which is in a housing attached to the side of the TXgard-IS+ determines the gas types that the apparatus will detect. The Personality Module inside the detector is either an Oxygen Personality Module that is specific to the oxygen detecting variant, or is a Toxic Gas Personality Module that is common to all toxic gas detecting variants. Calibration and the selection of different features is carried out via a three button keypad and external LCD. The detector uses a two terminal 4-20mA loop for power input and signal output.

#### Input Parameters:

$$U_i = 28V \quad C_i = 0$$

$$I_i = 93mA \quad L_i = 0$$

$$P_i = 0.66W$$

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. To minimize the risk of electrostatic discharge the apparatus must only be cleaned using a damp cloth.



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 08.0028X

Date of Issue: 2012-12-06

Issue No.: 2

Page 4 of 4

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

### Variation 2.1

To permit a minor label change not affecting the original assessment.

### Variation 2.2

To confirm the current design of the TXgard-IS+ has been reviewed against the requirements of IEC 60079-0: 2011 Edition 6 and IEC 60079-11: 2011 Edition 6 in respect of the differences from IEC 60079-0: 2007 Edition 5 and IEC 60079-11: 2006 Edition 5 and none of the differences affect the equipment.

ExTR: **GB/BAS/ExTR12.0316/00**

File Reference: **12/0885**



# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 08.0028X issue No.:1 Certificate history:  
Issue No. 1 (2008-11-6)  
Issue No. 0 (2008-9-17)

Status: **Current**

Date of Issue: **2008-11-06** Page 1 of 4

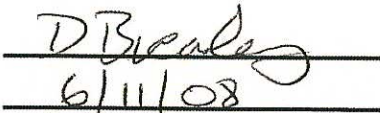
Applicant: **Crowcon Detection Instruments Ltd**  
2 Blacklands Way  
Abingdon Business Park  
Abingdon  
Oxfordshire  
OX14 1DY  
United Kingdom

Electrical Apparatus: **TXgard-IS+**  
*Optional accessory:*

Type of Protection: **Intrinsic Safety ia**

Marking: **Ex ia IIC T4 Ga (-40°C to +65°C)**

*Approved for issue on behalf of the IECEx Certification Body:* R S Sinclair  
*Position:* Managing Director

*Signature:*  
*(for printed version)* 

*Date:* 6/11/08

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3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





# IECEX Certificate of Conformity

Certificate No.: IECEx BAS 08.0028X  
Date of Issue: 2008-11-06 Issue No.: 1  
Page 2 of 4

Manufacturer: **Crowcon Defection 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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-26 : 2006</b> Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*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/ExTR08.0063/00  
GB/BAS/ExTR08.0122/00

Quality Assessment Report:

GB/BAS/QAR06.0070/00



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 08.0028X

Date of Issue: 2008-11-06

Issue No.: 1

Page 3 of 4

## Schedule

### EQUIPMENT:

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

The TXgard-IS+ is a gas detector capable of detecting a wide range of non-combustible gasses. The sensor which is in a housing attached to the side of the TXgard-IS+ determines the gas types that the apparatus will detect. The Personality Module inside the detector is either an Oxygen Personality Module that is specific to the oxygen detecting variant, or is a Toxic Gas Personality Module that is common to all toxic gas detecting variants. Calibration and the selection of different features is carried out via a three button keypad and external LCD. The detector uses a two terminal 4-20mA loop for power input and signal output.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. To minimize the risk of electrostatic discharge the apparatus must only be cleaned using a damp cloth.



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 08.0028X

Date of Issue: 2008-11-06

Issue No.: 1

Page 4 of 4

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

### Variation 1.1

To permit minor electrical and mechanical changes that do not affect the existing assessment.

ExTR: GB/BAS/ExTR08.0122/00

File Reference: 08/0736





# 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](http://www.iecex.com)

Certificate No.: IECEx BAS 08.0028X issue No.:0 Certificate history:

Status: Current

Date of Issue: 2008-09-17 Page 1 of 3

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

Electrical Apparatus: TXgard-IS+  
Optional accessory:


Type of Protection: Intrinsic Safety Ia

Marking: Ex Ia IIC T4 Ga (-40°C to +65°C)

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

Position: Managing Director

Signature:  
(for printed version)

  
17-9-08

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:

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





# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 08.0028X

Date of Issue: 2008-09-17

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):**

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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
<b>IEC 60079-26 : 2006</b> Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*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/ExTR08.0063/00

Quality Assessment Report:

GB/BAS/QAR06.0070/00



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 08.0028X

Date of Issue: 2008-09-17

Issue No.: 0

Page 3 of 3

## Schedule

### EQUIPMENT:

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

The TXgard-IS+ is a gas detector capable of detecting a wide range of non-combustible gasses. The sensor which is in a housing attached to the side of the TXgard-IS+ determines the gas types that the apparatus will detect. The Personality Module inside the detector is either an Oxygen Personality Module that is specific to the oxygen detecting variant, or is a Toxic Gas Personality Module that is common to all toxic gas detecting variants. Calibration and the selection of different features is carried out via a three button keypad and external LCD. The detector uses a two terminal 4-20mA loop for power input and signal output.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. To minimize the risk of electrostatic discharge the apparatus must only be cleaned using a damp cloth.