

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 Supplementary EU - Type **Baseefa04ATEX0024X/13**
Examination Certificate Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **Type Xgard Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Limited**

6 Address: **172 Brook Drive, Milton Park, Abingdon, Oxfordshire, OX14 4SD**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0024X** to apply to products 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 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

9 Item 9 of the original Certificate is replaced by “Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

IEC 60079-0:2017 EN 60079-1:2014 EN 60079-31:2014

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

12 The marking of the equipment has changed from the original Certificate and shall include the following:

 II 2 GD Ex db IIC T6 Gb Ex tb IIIC T80°C Db (T_{amb} = -40°C to +50°C) or
 II 2 GD Ex db IIC T4 Gb Ex tb IIIC T110°C Db (T_{amb} = -40°C to +80°C) or
 II 2 GD Ex db IIC T3 Gb Ex tb IIIC T180°C Db (T_{amb} = -40°C to +150°C)

SGS Baseefa Customer Reference No. 0249

Project File No. 17/0843

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SGS Baseefa Limited

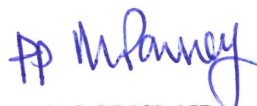
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Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN



R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

M POWNEY
Certification
Manager

13 **Schedule**

14 **Certificate Number Baseefa04ATEX0024X/13**

15 **Description of the variation to the Product**

Variation 13.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of IEC 60079-0: 2017 Edition 7, EN 60079-1: 2014 and EN 60079-31: 2014 in respect of the differences from the standards to which this certificate was issued.

16 **Report Number**

SGS Baseefa Report GB/BAS/ExTR18.0060/00.

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 are met by the standards listed in section 9.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
CON-4710-A1	1 of 1	14	05/2018	XGARD General Assembly
CON-4800-A1	1 of 1	9	05/2018	HT Type 4 Certification Drawing

These drawings are common to this certificate and held with IECEx BAS 05.0043X.

1 **SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 Supplementary EU - Type **Baseefa04ATEX0024X/12**
Examination Certificate Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **Type Xgard Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Limited**

6 Address: **Brook Drive, Milton Park, Abingdon, Oxfordshire, OX14 4SD**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0024X** to apply to products 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 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

9 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+A11:2013 EN 60079-1:2014 EN 60079-31:2009

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

12 The marking of the equipment has changed from the original Certificate and shall include the following:

- ⊕ II 2 GD Ex db IIC T6 Gb
Ex tb IIC T80° Db (T_{amb} = -40°C to +50°C) or
- ⊕ II 2 GD Ex db IIC T4 Gb
Ex tb IIC T110°C Db (T_{amb} = -40°C to +80°C) or
- ⊕ II 2 GD Ex db IIC T3 Gb
Ex tb IIC T180°C Db (T_{amb} = -40°C to +150°C)

SGS Baseefa Customer Reference No. **0249**

Project File No. **17/0682**

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SGS Baseefa Limited

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Re-issued 12 June 2018 to replace original



R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa04ATEX0024X/12

15 Description of the variation to the Product

Variation 12.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2012 + A11: 2013 and EN 60079-1:2014 in respect of the differences from the standards to which this certificate was issued; none of these differences affect this equipment, other than the code marking requirements which have been addressed.

16 Report Number

SGS Baseefa Report Reference Number: GB/BAS/ExTR 17.0354/00

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 affected as follows.

Clause	Subject	Compliance
1.2.7	LVD type requirements	Standards require manufacturer's declaration, supplied.
1.2.8	Overloading of equipment (protection relays, etc.)	Covered by installation rules and manufacturer's instructions. The overloading was assessed as part of the type tests.
1.4.1	External effects	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions
1.4.2	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
4711	1	14	22/11/2017	Xgard ATEX Flameproof Certification Label
4801	1	9	22/11/2017	Xgard ATEX/IECEX High Temperature Certification Label

These drawings are common to this certificate and are held with IECEX BAS 05.0043X.

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: **Baseefa04ATEX0024X/11**

4 Equipment or Protective System: **Type Xgard Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Limited**

6 Address: **127 Brook Drive, Milton Park, Abingdon, OX14 4SD**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0024X** 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.

Baseefa Customer Reference No. **0249**

Project File No. **15/0962**

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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa04ATEX0024X/11

15 Description of the variation to the Equipment or Protective System

Variation 11.1

To allow clarification of drawings and minor drawing changes

16 Report Number

SGS Baseefa Report No GB/BAS/ExTR16.0009/00

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
*4710-CERT	1	13	01/16	XGARD GENERAL ASSEMBLY
*4711-CERT	1	13	06/14	XGARD ATEX FLAMEPROOF CERT LABEL
*CON-4734-A4	1	5	07/06	XGARD SINTERED DISC
CON-4739-A3	1	8	01/09	SINTER HOUSING DETAILS
4749-CERT	1	2	09/08	SERIAL NUMBER LABEL
CON-4766-A2	1	1	05/05	SENSOR HEAD PELLISTOR XGARD VERSION TYPE 4
CON-4767-A2	1	1	05/05	SINTERED BODY ASSEMBLY XGARD VERSION TYPE 4
CON-4768-A2	1	1	05/05	CAP - XGARD VERSION TYPE 4
CON-4769-A2	1	1	05/05	BODY - XGARD VERSION TYPE 4
*CON-4800-A1	1	8	01/16	XGARD HT TYPE 4 CERTIFICATION DRAWING
*4801-CERT	1	8	06/14	XGARD ATEX/IECEX HIGH TEMPERATURE CERTIFICATION LABEL
CON-4850-A3	1	1	04/05	GENERAL ASSEMBLY – HT DETECTOR TYPE 4
CON-4851-A3	1	1	04/05	BODY ASSEMBLY – HT DETECTOR TYPE 4
CON-4852-A3	1	1	04/05	CAP – HT DETECTOR TYPE 4
CON-4853-A3	1	1	04/05	BODY – HT DETECTOR TYPE 4
6501-CERT	1	1	09/08	XGARD SINTER CLAMPING RING
6502	1	1	08/08	XGARD SINTER DISC (ALTERNATIVE)
6503-CERT	1	3	09/08	XGARD ST STEEL SINTER ASSY (ALTERNATIVE)
6025-CERT	1	2	09/08	XGARD ST-ST CERTIFICATION ASSEMBLY

Only the drawings marked with ‘*’ have changed, all the other drawings are listed for clarification only. These drawings are common to, and held with IECEX BAS 05.0043X



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: **Baseefa04ATEX0024X/10**

4 Equipment or Protective System: **Type Xgard Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Limited**

6 Address: **2 Blacklands Way, Abingdon Business Park, Abingdon, Oxfordshire,
OX14 1DY**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0024X 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 , EN60079-1:2007 and 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:

⊕ II 2GD Ex d IIC T6 Gb
Ex tb IIIC T80°C Db
(-40°C ≤ Tamb ≤ + 50°C) or
⊕ II 2GD Ex d IIC T4 Gb
Ex tb IIIC T110°C Db
(-40°C ≤ Tamb ≤ + 80°C) or
⊕ II 2GD Ex d IIC T3 Gb
Ex tb IIIC T180°C Db
(-40°C ≤ Tamb ≤ + 150°C)

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. **0249**

Project File No. **12/1010**

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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Baseefa is a trading name of Baseefa Ltd

Registered in England No. 4305578. Registered address as above.

P R S SINCLAIR M POWNEY
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number Baseefa04ATEX0024X/10

15

Description of the variation to the Equipment or Protective System

Variation 10.1

Clarification that the existing units are additionally marked to permit the use of the equipment within a Zone 21 area by compliance with IEC 61241-0: 2004 and IEC61241-1: 2004 :-

Ex tD A21 IP6X

T80°C T_{amb} = 50°C

T110°C T_{amb} = 80°C

T180°C T_{amb} = 150°C

Variation 10.2

The equipment covered by this certificate has been reviewed against the additional design and test requirements of EN 60079-0:2012 , EN60079-1:2007 and EN 60079-31:2009 and compliance is confirmed.

Variation 10.3

The unit, as Variation 10.2 above, is to be marked with the following amended coding:-

⊕ II 2GD Ex d IIC T6 Gb

Ex tb IIC T50°C Db

(- 40°C ≤T_{amb} ≤+ 50°C) or

⊕ II 2GD Ex d IIC T4 Gb

Ex tb IIC T80°C Db

(- 40°C ≤T_{amb} ≤+ 80°C) or

⊕ II 2GD Ex d IIC T3 Gb

Ex tb IIC T150°C Db

(- 40°C ≤T_{amb} ≤+ 150°C)

Variation 10.4

Minor additional label wording.



16 Report Number

GB/BAS/ExTR13.0010/00

17 Special Conditions for Safe 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
4801-CERT*	-	7	01/13	Xgard ATEX/IECEX High Temperature Certification Label
4711-CERT*	-	12	01/13	Xgard ATEX/IECEX Certification Label
4710-CERT*	1	12	01/13	Xgard General Assembly

*These drawings are common to and held with IECEX BAS 05.0043X.



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: **Baseefa04ATEX0024X/9**

4 Equipment or Protective System: **An Xgard Gas Detector**

5 Manufacturer: **Crowcon Gas Detection Instruments Limited**

6 Address: **Abingdon Oxfordshire, OX14 1DY**

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa04ATEX0024X 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. 0249

Project File No. 09/0076

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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e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

A handwritten signature in blue ink, appearing to read "R S Sinclair".

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number Baseefa04ATEX0024X/9

15

Description of the variation to the Equipment or Protective System

Variation 9.1

Minor changes to the drawing.

16

Report Number

GB/BAS/EXTR09.0022/00

17

Special Conditions for Safe Use

None in addition to the original.

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
CON-4739-A3	8	01/09	Sinter Housing Details

This drawing is common to IECEX BAS05.0043X and is held with that certificate.



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: **Baseefa04ATEX0024X/8**
- 4 Equipment or Protective System: **An Xgard Gas Detector**
- 5 Manufacturer: **Crowcon Gas Detection Instruments Limited**
- 6 Address: **Abingdon Oxfordshire, OX14 1DY**
- 7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa04ATEX0024X 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. 0249

Project File No. 08/0251

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.

A handwritten signature in black ink, appearing to read "R S Sinclair".

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e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number Baseefa04ATEX0024X/8

15

Description of the variation to the Equipment or Protective System

Variation 8.1

To allow the introduction of an alternative sinter and sinter housing arrangement for the XGard Unit for use in ambient temperatures of -40°C to $+50^{\circ}\text{C}$ or $+80^{\circ}\text{C}$. This change does not affect the XGard HT version Type 4 for use in an ambient temperature of up to 150°C .

Variation 8.2

The introduction of an alternative design of enclosure in stainless steel for the Xgard assembly, together with clarification of the certified drawings to those listed below.

Variation 8.3

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2006, and EN60079-1: 2004 in respect of the differences from EN 50014:1997 + Amds. 1 and 2, EN50018: 2000 respectively and that none of these differences affect this equipment.

16

Report Number

GB/BAS/ExTR08.0180/00

17

Special Conditions for Safe Use

None

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
CON-4710-A1	11	08/07	General Assembly
CON-4739-A3	7	08/07	Sinter Housing Details
CON-4734-A4	4	01/05	Sinter
4749-CERT	2	09/08	Serial Number Label
4711- CERT	10	08/08	Certification Label Details
6501-CERT	1	09/08	XGard Sinter Clamping Ring
6502	1	08/08	XGard Sinter Disc (alternative)
6503 CERT	3	09/08	XGard St Steel Sinter Assy (alternative)
6025 CERT	2	09/08	XGard Stainless enclosure GA (alternative)
CON-4800-A1	6	05/07	General Assembly XGARD - HT Version Type 4
4801-A4	6	08/08	Certification Label -High Temperature Version Type 4
CON-4766-A2	1	05/05	Sensor Head Pellistor XGard Version Type 4
CON-4767-A2	1	05/05	Sintered Body Assembly XGard Version Type 4

Certificate Number
Baseefa04ATEX0024X/8



Issued 12 September 2008
Page 3 of 3

Number	Issue	Date	Description
CON-4768-A2	1	05/05	Cap - XGard Version Type 4
CON-4769-A2	1	05/05	Body- XGard Version Type 4

These drawings are common to IEC Ex BAS05.0043X and Baseefa04ATEX00024X and are held with the former



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: **Baseefa04ATEX0024X/7**

4 Equipment or Protective System: **An Xgard Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Limited**

6 Address: **Abingdon, Oxfordshire, OX14 1DY**

7 This supplementary certificate extends EC - Type Examination Certificate No. **Baseefa04ATEX0024X** 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. 0249

Project File No. 07/0655

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address


R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number Baseefa04ATEX0024X/7

15

Description of the variation to the Equipment or Protective System

Variation 7.1

To allow the use of LM25M as an alternative material for the manufacture of the Xgard enclosure.

16

Report Number

Baseefa Certification Report No. GB/BAS/EXTR 07.0178/00

17

Special Conditions for Safe 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
CON-4710-A1	11	08/07	Xgard General Assembly
CON-4800-A1	7	08/07	Xgard HT Type 4 General Assembly
CON-4739-A3	7	08/07	Sinter housing Xgard

These drawings are common to and held with IECEX BAS 05.0043X.

Certificate Number
Baseefa04ATEX0024X/6



Issued 21 May 2007
Page 1 of 2

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: **Baseefa04ATEX0024X/6**

4 Equipment or Protective System: **An Xgard Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Limited**

6 Address: **Abingdon, Oxfordshire, OX14 1DY**

7 This supplementary certificate extends EC - Type Examination Certificate No. **Baseefa04ATEX0024X** 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.

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

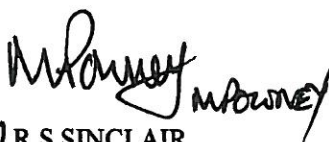
Baseefa Customer Reference No. **0249**

Project File No. **07/0379**

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DIRECTOR
On behalf of
Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number Baseefa04ATEX0024X/6

15 **Description of the variation to the Equipment or Protective System**

Variation 6.1

Minor changes to the PCB and earth fixing arrangements, together with some clarification of the drawing detail including the casting material specification.

16 **Report Number**

Baseefa Report No. GB/BAS/ExTR 07.0063/00

17 **Special Conditions for Safe 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
CON-4710-A1	10	05/07	Xgard General Assembly
CON-4800-A1	6	05/07	Xgard HT Type 4 General Assembly

Drawing Number CON-4707-A1 previously listed has now been withdrawn.

These drawings are common with IECEx BAS 05.0043X



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: **Baseefa04ATEX0024X/5**

4 Equipment or Protective System: **An Xgard Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Limited**

6 Address: **Abingdon, Oxfordshire, OX14 1DY**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0024X** 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.

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Baseefa Customer Reference No. 0249

Project File No. 06/0907

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Certificate Number Baseefa04ATEX0024X/5

15 **Description of the variation to the Equipment or Protective System**

Variation 5.1

An alternative assembly incorporating an infrared sensor module.
In this form the unit is designated a XGARD IR Gas Detector.

Variation 5.2

Minor dimensional changes not affecting certification.

16 **Report Number**

Baseefa Report No. 06(C)0907

17 **Special Conditions for Safe 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
CON-4707-A1	A	Oct-06	Xgard General Assembly
CON-4739-A3	6	02/06	Xgard Sinter Housing

These drawings are common with IECEx BAS 05.0043X

Certificate Number
Baseefa04ATEX0024X/4



Issued 15 May 2006
Page 1 of 2

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 **Baseefa04ATEX0024X/4**
 Examination Certificate Number:

4 Equipment or Protective System: **An Xgard Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Limited**

6 Address: **Abingdon, Oxfordshire, OX14 1DY**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0024X** 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.

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Baseefa Customer Reference No. 0249

Project File No. 06/0376

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Schedule

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Certificate Number Baseefa04ATEX0024X/4

15 **Description of the variation to the Equipment or Protective System**

Variation 4.1

Minor dimensional changes not affecting certification.

16 **Report Number**

None

17 **Special Conditions for Safe 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
CON-4710-A1	8	02/06	Xgard General Assembly
CON-4800-A1	5	02/06	HT Type 4 General Assembly

Certificate Number
Baseefa04ATEX0024X/3



Issued 6 February 2006
Page 1 of 2

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 **Baseefa04ATEX0024X/3**
 Examination Certificate Number:

4 Equipment or Protective System: **An Xgard Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Limited**

6 Address: **Abingdon, Oxfordshire, OX14 1DY**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0024X** 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.

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Baseefa Customer Reference No. 0249

Project File No. 05/0839

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Schedule

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Certificate Number Baseefa04ATEX0024X/3

15 **Description of the variation to the Equipment or Protective System**

Variation 3.1

To permit the use of the equipment within a Zone 21 area by compliance with IEC 61241-0: 2004 and IEC 61241-1: 2004.

The Xgard gas detector is additionally marked:-

Ex tD A21 IP6x
T80°C T_{amb} = 50°C
T110°C T_{amb} = 80°C
T180°C T_{amb} = 150°C

16 **Report Number**

Baseefa certification report 05(C)0839

17 **Special Conditions for Safe 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
CON-4711-A4	9	01/06	Certification Label Details
CON-4801-A4	5	02/06	Certification Label Details – High temperature



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: **Baseefa04ATEX0024X/2**

4 Equipment or Protective System: **An Xgard Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Limited**

6 Address: **Abingdon, Oxfordshire, OX14 1DY**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0024X** 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. 0249

Project File No. 05/0775

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On behalf of
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Schedule

14

Certificate Number Baseefa04ATEX0024X/2

15 **Description of the variation to the Equipment or Protective System**

Variation 2.1

To permit additional information on the certification labels.

16 **Report Number**

None

17 **Special Conditions for Safe 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
CON-4711-A4	8	05/04	Certification Label Details
CON-4801-A4	3	10/05	Certification Label Details – High temperature

Certificate Number
Baseefa04ATEX0024X/1



Issued 11 July 2005
Page 1 of 2

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 **Baseefa04ATEX0024X/1**
 Examination Certificate Number:

4 Equipment or Protective System: **An Xgard Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Limited**

6 Address: **Abingdon, Oxfordshire, OX14 1DY**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0024X** 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. 0249

Project File No. 04/0406

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Schedule

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Certificate Number Baseefa04ATEX0024X/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

To permit an increase in the maximum sinter pore size up to 180µm for use in a maximum ambient temperature to +150°C with a T3 temperature classification.

Drawing

Number	Issue	Date	Description
CON-4734-A4	4	01/05	Sinter
CON-4801-A4	B	02/04	Certification Label Details – High temperature

Variation 1.2

Removal of the sinter and gas sensor assembly and the addition of a potted type 4 sensor threaded into the original sensor housing for use in a maximum ambient temperature to +150°C with a T3 temperature classification.

Drawings

Number	Issue	Date	Description
CON-4800-A1	B	02/05	General Assembly XGARD - HT Detector Type 4
CON-4850-A3	1	04/05	General Assembly - HT Detector Type 4
CON-4851-A3	1	04/05	Body Assembly - HT Detector Type 4
CON-4853-A3	1	04/05	Body- HT Detector Type 4
CON-4852-A3	1	04/05	Cap - HT Detector Type 4

16 Report Number

Baseefa Certification Report 04(C)0406

17 Special Conditions for Safe 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

See schedule

Certificate Number
Baseefa04ATEX0024X



Issued 7 June 2004
Page 1 of 2

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: **Baseefa04ATEX0024X**

4 Equipment or Protective System: **An Xgard Gas Detector**

5 Manufacturer: **Crowcon Detection Instruments Limited**

6 Address: **Abingdon, Oxfordshire, OX14 1DY**

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 (2001) Ltd. 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. 03(C)0017

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


EN 50014: 1997 + Amendments 1 & 2 **EN 50018: 2000 + Amendment 1**

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 2G EEx d IIC T6 (T_{amb} = - 40°C to + 50°C)
or T4 (T_{amb} = - 40°C to + 80°C)**

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

Baseefa (2001) Ltd. Customer Reference No. 0249

Project File No. 03/0017

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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On behalf of
Baseefa (2001) Ltd.

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13

Schedule

14

Certificate Number Baseefa04ATEX0024

15 Description of Equipment or Protective System

The Xgard Gas Detector comprises an aluminium alloy base and threaded cover. Bosses on the base are provided for a threaded gas sinter and detector housing, and cable entry ports. The base contains a gas sensor amplifier printed circuit board.

The sensor is rated up to 32V, 10W.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component) under an EC Type Examination Certificate to Directive 94/9/EC.

16 Report Number

Baseefa certification report 03(C)0017

17 Special Condition for Safe Use

This equipment must not be used in a carbon disulphide atmosphere.

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
CON-4710-A1	1	4	05/04	General Assembly
CON-4739-A3	1	3	04/04	Sinter Housing Details
CON-4734-A4	-	2	03/04	Sinter
CON-4749-A4	-	1	05/04	Serial Number Label
CON-4711-A4	-	5	05/04	Certification Label Details