

1 **EU - TYPE EXAMINATION CERTIFICATE**

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

3 EU - Type Examination Certificate **Baseefa08ATEX0069X – Issue 3**
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: **TXgard IS+**

5 Manufacturer: **Crowcon Detection Instruments Limited**

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

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa08ATEX0069X to apply to product 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 this product 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.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR16.0305/00**

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

EN 60079-0: 2012 + A11: 2013 EN 60079-11: 2012

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 product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following :

⊕ II 1G Ex ia IIC T4 Ga (-40°C ≤ T_a ≤ +65°C)

SGS Baseefa Customer Reference No. **0249**

Project File No. **16/0385**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.sgs.com/SGSBaseefa/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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R S SINCLAIR
TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

14

Certificate Number Baseefa08ATEX0069X – Issue 3

15 Description of Product

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:

$U_i = 28V$ $C_i = 0$
 $I_i = 93mA$ $L_i = 0$
 $P_i = 0.66W$

16 Report Number

GB/BAS/ExTR16.0305/00

17 Specific Conditions of Use

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

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
3871-CERT	1	04	30/11/2012	TXgard – IS+ ATEX IECEx Certification Label.
3823-CD-CERT	1	7	16/12/08	Txgard IS + Toxic Personality PCB Circuit Diagram
3823-PL-CERT	1	7	16/12/08	Txgard IS + Toxic Personality PCB Certified Parts List
3823-PCB-CERT	1 to 6	7	8/1/09	Txgard IS + Toxic Personality PCB

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
3821-CD-CERT	1	6	10/08	TXgard IS+ Base Board Circuit Diagram
3821-PL-CERT	1	6	10/08	TXgard IS+ Base Board Certified Parts List
3821-PCB-CERT	1 to 6	5	29/8/08	TXgard IS+ Base Board

Number	Sheet	Issue	Date	Description
3801-CCT-CERT	1	9	24/10/08	TXgardIS+ Main Board Circuit Diagram
3801-PL-CERT	1	9	24/10/08	TXgardIS+ Main Board Certified Parts List
3801-PCB-CERT	1 to 8	7	27/8/08	TXgardIS+ Main Board PCB Certification Drawing
3822-CERT	1	2	09/08	Txgard IS + Oxygen Personality Board
3851-CERT	1	4	03/08	Txgard IS + Oxygen Personality Board Certified Parts List
3858-CERT	1	3	03/08	TXgard-IS+ PC2137 Oxygen Personality PCB Details for Certification
2131-CD-CERT	1	2	10/08	Txgard IS+ Toxic Personality PCB Circuit Diagram
2131-PL-CERT	1	2	10/08	Txgard IS+ Toxic Personality PCB Certified Parts List
PC2131-PCB-CERT	1 to 10	1	2000	
3800-CERT	1 & 2	5	01/08	Txgard IS+ Top Level Certification Parts List
3815-CERT	1	4	03/08	Txgard-IS+ Display Membrane
3817-CERT	1	2	03/08	Txgard IS+ Potting Details Base Board
3839-CERT	1	3	03/08	Txgard IS+ Certification Drawing General Assembly
3843-CERT	1	2	03/08	Txgard IS+ Junction box Sub Assembly Option 2 (Side Entry)
3844-CERT	1	2	03/08	Txgard IS+ Junction box Sub Assembly Option 1 (Top Entry)
3846-CERT	-	2	03/08	Txgard IS+ Oxygen/Toxic Personality General Assembly
3847-CERT	-	2	03/08	Txgard IS+ Static Warning Label
3277-CERT	-	2	03/08	Txgard IS/IS+ Sensor Housing Dimension Details
83HD-0274-A2	1	8	05/05	83HD Flow Head and Assembly Details
3782-CERT	1	1	09/08	TXgard IS+ Additional capacitors on Toxic Personality Board
3839-CERT	1	4	10/08	TXgard IS+ Certification Drawing General Assembly.

20 Certificate History

Certificate No.	Date	Comments
Baseefa08ATEX0069X	12 September 2008	The release of the prime certificate. The associated test and assessment against the requirements of EN60079-0: 2006, EN60079-11: 2007 & EN60079-26: 2007 is documented in Test Report GB/BAS/ExTR08.0063/00, Project No: 08/0084.
Baseefa08ATEX0069X/1	04 November 2008	To permit minor mechanical and electrical changes. Report GB/BAS/ExTR08.0122/00, Project No: 08/0736
Baseefa08ATEX0069X/02	03 December 2012	Update of standards to EN60079-0: 2012 and EN60079-11: 2012. Report GB/BAS/ExTR12.0316/00, Project 12/0885.
Baseefa03ATEX0123X Issue 3	17 October 2016	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN60079-0: 2012 + A11: 2013 and permits minor mechanical and electrical changes. The address is also updated. Report GB/BAS/ExTR16.305/00, Project No: 16/0385
For drawings applicable to each issue, see original of that issue.		



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: **Baseefa08ATEX0069X/2**

4 Equipment or Protective System: **TXgard IS+**

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. Baseefa08ATEX0069X 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 60079-11: 2012

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 1G Ex ia IIC T4 Ga (-40°C ≤T_a ≤+65°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. **12/0885**

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.

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


R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa08ATEX0069X/2

15 Description of the variation to the Equipment or Protective System

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 EN 60079-0: 2012 and EN 60079-11: 2012 in respect of the differences from EN 60079-0: 2006 and EN 60079-11: 2007 and none of the differences affect the equipment.

16 Report Number

GB/BAS/ExTR12.0316/00

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
3871-CERT	1 of 1	03	30/11/2012	TXgard-IS+ ATEX/IECEX Certification Label

The above drawing is associated and held with IECEX Certificate No. IECEX BAS 08.0028X Iss. 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: **Baseefa08ATEX0069X/1**

4 Equipment or Protective System: **TXgard IS+**

5 Manufacturer: **Crowcon Detection Instruments Ltd.**

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa08ATEX0069X 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. **08/0736**

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.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

14

Certificate Number Baseefa08ATEX0069X/1

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

Variation 1.1

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

16 **Report Number**

GB/BAS/ExTR08.0122/00

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
3821-CD-CERT	1	6	10/08	TXgard IS+ Base Board Circuit Diagram
3821-PL-CERT	1	6	10/08	TXgard IS+ Base Board Certified Parts List
3801-CCT-CERT	1	9	24/10/08	TXgardIS+ Main Board Circuit Diagram
3801-PL-CERT	1	9	24/10/08	TXgardIS+ Main Board Certified Parts List
2131-CD-CERT	1	2	10/08	Txgard IS+ Toxic Personality PCB Circuit Diagram
2131-PL-CERT	1	2	10/08	Txgard IS+ Toxic Personality PCB Certified Parts List
3872-CERT	1	1	09/08	Txgard IS+ Additional Capacitors on Toxic Personality Board
3839-CERT	1	4	10/08	Txgard IS+ Certification Drawing General Assembly

These drawings are held with IECEx BAS 08.0028X/1.



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: **Baseefa08ATEX0069X**

4 Equipment or Protective System: **TXgard IS+**

5 Manufacturer: **Crowcon Detection Instruments Ltd.**

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, 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.

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

EN 60079-0:2006 EN 60079-11:2007 EN60079-26:2007

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 1G Ex ia IIC T4 Ga (-40°C to +65°C)

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


Baseefa Customer Reference No. **0249**

Project File No. **08/0084**

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.

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R.S. SINCLAIR
DIRECTOR
On behalf of
Baseefa

Re-issued 6 December 2012 to replace original



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Schedule

14

Certificate Number Baseefa08ATEX0069X

15 Description of Equipment or Protective System

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	C_i	=	0
I_i	=	93mA	L_i	=	0
P_i	=	0.66W			

16 Report Number

GB/BAS/ExTR08.0063/00

17 Special Conditions for Safe Use

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

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
3821-CD-CERT	1	5	08/08	TXgard IS+ Base Board Circuit Diagram
3821-PL-CERT	1	5	08/08	TXgard IS+ Base Board Certified Parts List
3821-PCB-CERT	1 to 6	5	29/8/08	TXgard IS+ Base Board
3801-CCT-CERT	1	7	8/08	TXgardIS+ Main Board Circuit Diagram
3801-PL-CERT	1	7	08/08	TXgardIS+ Main Board Certified Parts List
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3822-CERT	1	2	09/08	Txgard IS + Oxygen Personality Board
3851-CERT	1	4	03/08	Txgard IS + Oxygen Personality Board Certified Parts List
3858-CERT	1	3	03/08	TXgard-IS+ PC2137 Oxygen Personality PCB Details for Certification
3823-CD-CERT	1	4	08/08	Txgard IS + Toxic Personality PCB Circuit Diagram
3823-PL-CERT	1	4	08/08	Txgard IS + Toxic Personality PCB Certified Parts List
3823-PCB-CERT	1 to 4	4	29/8/08	Txgard IS + Toxic Personality PCB



Number	Sheet	Issue	Date	Description
2131-CD-CERT	1	1	08/08	Txgard IS+ Toxic Personality PCB Circuit Diagram
2131-PL-CERT	1	1	08/08	Txgard IS+ Toxic Personality PCB Certified Parts List
PC2131-PCB-CERT	1 to 10	1	2000	
3800-CERT	1 & 2	5	01/08	Txgard IS+ Top Level Certification Parts List
3815-CERT	1	4	03/08	Txgard-IS+ Display Membrane
3817-CERT	1	2	03/08	Txgard IS+ Potting Details Base Board
3839-CERT	1	3	03/08	Txgard IS+ Certification Drawing General Assembly
3843-CERT	1	2	03/08	Txgard IS+ Junction box Sub Assembly Option 2 (Side Entry)
3844-CERT	1	2	03/08	Txgard IS+ Junction box Sub Assembly Option 1 (Top Entry)
3846-CERT	-	2	03/08	Txgard IS+ Oxygen/Toxic Personality General Assembly
3847-CERT	-	2	03/08	Txgard IS+ Static Warning Label
3871-CERT	1	2	09/08	Txgard-IS+ ATEX/IECEX Certification Label
3277-CERT	-	2	03/08	Txgard IS/IS+ Sensor Housing Dimension Details
83HD-0274-A2	1	8	05/05	83HD Flow Head and Assembly Details