

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 Baseefa14ATEX0012X Issue 10 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: XgardIQ Fixed Gas Detector

5 Manufacturer: Crowcon Detection Instruments Limited

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

United Kingdom

- 7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa14ATEX0012X** 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.
- SGS Fimko Oy, Notified Body number 0598, 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.
- 8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. See Certificate History

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

EN IEC 60079-0: 2018 EN 60079-1: 2014 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:

SGS Fimko Oy Customer Reference No. 0249

Project File No. 21/0225

This document is issued by the Company subject to their General Conditions for Certification Services accessible at http://www.sgs.com/en/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 their 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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Business ID 0978538-5 Member of the SGS Group (SGA SA)

Mikko Välimäki Authorised Signatory for SGS Fimko Oy



13 Schedule

Certificate Number Baseefa14ATEX0012X – Issue 10

15 Description of Product

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The XgardIQ Fixed Gas Detector comprises a stainless steel or painted aluminium housing, which is divided into a cylindrical flameproof enclosure and a crescent shaped I.S. enclosure. An Ex d certified bushing is used to provide cable access between the two compartments.

Three cable entry holes are provided in the main flameproof enclosure as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of flameproof thread adapters. Any unused cable entry holes must be fitted with a suitable flameproof stopping plug certified as Equipment (not a Component) under an EC-Type Examination Certificate to Directive 2014/34/EU, or a stopping plug provided by the manufacturer. The cable entries may be M20 or ½" NPT and are identified on the body of the XgardIQ by markings cast into the enclosure.

The enclosure also features an M115 threaded painted aluminium or stainless steel lid. An M3 grub screw is used to secure the lid against unintentional removal.

The flameproof enclosure houses a stacked PCB sub assembly comprises a main board and terminal board that provides the intrinsic safe connections to the display sub assembly and sensor housed in the I.S. compartment. In addition to these boards, the stacked assembly can be fitted with an optional Relay Board providing three 230V, 5A rated volt-free contacts for the switching of external alarm devices, and / or a Fieldbus Module providing Foundation Fieldbus communications. The model number of the equipment indicates the fitting of the optional boards and whether HART communications is enabled.

The intrinsically safe display sub assembly comprises an OLED display with three push buttons on the front of the compartment used to interrogate and monitor the XgardIQ in service. Two contacts are additionally provided on the front of the display for the connection of a suitably certified HART Communicator, such as the Emerson Type 375 Communicator. The contacts on the front of the display are exposed and the possible output has a FOS of at least 375 so does not pose a hazard.

The I.S. compartment of the enclosure features a cylindrical entry machined to house one of four plastic XgardIQ sensor assemblies. The ambient temperature range of the equipment is dependent on the sensor assembly fitted. The Sensor Type and associated ambient temperature range are listed below:

Sensor Type	Ambient Temperature Range
Oxygen	$-40^{\circ}\text{C} \le T_a \le +75^{\circ}\text{C}$
Toxic	$-40^{\circ}\text{C} \le T_a \le +75^{\circ}\text{C}$
Pellistor	$-40^{\circ}\text{C} \le T_a \le +75^{\circ}\text{C}$
Infra-red (IR)	$-20^{\circ}\text{C} \le \text{T}_{a} \le +55^{\circ}\text{C}$

The model number of the equipment indicates the Gas Sensor fitted to the sensor assembly. The various types are listed in the User Manual provided by the manufacturer. The equipment is not designed for use in oxygen enriched atmospheres.

Alternatively, the entire sensor assembly may be replaced with a remote sensor assembly comprising a metallic remote sensor housing to which one of the above mentioned XgardIQ Sensor assemblies can be fitted. This is connected to the main unit via a cable to up to 15 metres in length.

The XgardIQ has a range of available accessories, which includes:

- Splash guard assembly
- Calibration cap
- Flow adaptor
- Dust filter
- Pipe mounting kit
- Sun shade

The calibration cap and flow adaptor are intended to be used for maintenance purposes, whilst the remainder are optional and dependent on the conditions which the equipment is intended to be used in.



The main enclosure is fully labelled with the requisite marking and warnings, whilst the sensors and remote sensor housing are labelled as 'Part Of' the equipment.

Output Parameters

HART communicator contacts

$U_{ m o}$	=	5V	C_{i}	=	1.1nF
$I_{\rm o}$	=	13.3mA	$L_{\rm i}$	=	0
P_{0}	=	17mW			

16 Report Number

See Certificate History

17 Specific Conditions of Use

- 1. Variants of the equipment housed in a painted aluminium enclosure constitute a potential electro-static charging hazard and must not be rubbed with a dry cloth or cleaned with solvents.
- 2. 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 Ex Equipment, and not an Ex Component, under an EC-Type Examination Certificate to Directive 2014/34/EU.
- 3. No part of this equipment or its accessories covered by this certificate shall be used outside the pressure range 80kPa to 110kPa, as defined by EN IEC 60079-0.
- 4. The ambient temperature range of the equipment is dependent on the Sensor Type fitted. Refer to the Certificate Schedule for the relevant ambient temperature ranges.

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
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
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
MCAD-002338	1 to 2	02	2022-09-15	Display Sub Assembly – ATEX / IECEx Gas
MCAD-002391	1 of 1	07	13/09/2019	XgardIQ Cert Label – ATEX / IECEx Gas
MCAD-002415	1 of 1	04	13/09/2019	Hot Swap CERT Label
MCAD-002433	1 of 1	03	13/09/2019	Remote Sensor Cert Label
MCAD-004002	1 of 1	01	12/08/2021	XgardIQ Cert Label – ATEX/IECEx Gas
MCAD-004005	1 of 1	01	13/08/2021	Remote Sensor Cert Label



Number	Sheet	Issue	Date	Description
MCAD-004018	1 of 1	01	19/08/2021	Hot Swap CERT Label
MCAD-002390	1 of 1	07	2022-02-23	Gas Type Sensor Label

Current drawings which remain unaffected by this issue:

MCAD-001956 1 of 1 01 22/10/2014 Sensor Housing Front Half MCAD-001957 1 of 1 01 02/10/2014 Xgard IQ Sensor Technologies MCAD-001958 1 of 1 01 16/10/2014 Sensor Housing Rear Half MCAD-001964 1 of 1 01 22/09/2014 Splash Guard Assembly MCAD-002015 1 of 1 02 12/07/2017 Pellistor Sensor Sub-Assembly MCAD-002334 1 of 1 01 22/10/2014 Overmould Display Moulding
MCAD-001958 1 of 1 01 16/10/2014 Sensor Housing Rear Half MCAD-001964 1 of 1 01 22/09/2014 Splash Guard Assembly MCAD-002015 1 of 1 02 12/07/2017 Pellistor Sensor Sub-Assembly
MCAD-001964 1 of 1 01 22/09/2014 Splash Guard Assembly MCAD-002015 1 of 1 02 12/07/2017 Pellistor Sensor Sub-Assembly
MCAD-002015 1 of 1 02 12/07/2017 Pellistor Sensor Sub-Assembly
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MCAD-002334 1 of 1 01 22/10/2014 Overmould Display Moulding
MCAD-002371 1 of 1 01 22/09/2014 Calibration Cap Assembly
MCAD-002372 1 of 1 01 22/09/2014 Flow Adaptor Assembly
MCAD-002380 1 of 1 01 17/02/2015 Hot Swap Pellistor Sensor
MCAD-002382 1 of 1 01 02/10/2014 Hot Swap Toxic Sensor
MCAD-002388 1 of 1 05 22/12/2016 Remote Sensor Housing Assembly – Certification GA
MCAD-002392 1 of 1 01 01/04/2014 Warning Label
MCAD-002394 1 of 1 01 17/01/2014 Cable Retaining Cap
MCAD-002395 1 of 1 02 29/06/2016 Remote Sensor Cable Assembly – Certification GA
MCAD-002396 1 of 1 01 16/01/2015 Remote Sensor Housing Front
MCAD-002408 1 of 1 01 18/03/2014 M20 Blanking Plug
MCAD-002409 1 of 1 01 18/03/2014 1/2"NPT Blanking Plug
MCAD-002411 1 of 1 01 02/10/2014 Hot Swap Oxygen Sensor
MCAD-002430 1 of 1 01 16/10/2014 Exd PCB Assembly
MCAD-002459 1 of 1 01 16/10/2014 Dummy Sensor
MCAD-002474 1 of 1 03 16/02/2017 XgardIQ Exd
MCAD-002502 1 of 1 01 18/03/2014 Sensor PCB Insulator Ring
MCAD-002566 1 of 1 01 02/10/2014 Exd Can
MCAD-002613 1 of 1 01 08/04/2015 Pipe Mounting Kit XgardIQ
MCAD-002631 1 of 1 01 05/11/2015 Product Code Label
MCAD-002638 1 of 1 02 04/07/2017 Sun Shade Assembly
MCAD-003398 1 of 1 01 23/06/2016 Hot Swap IR Sensor Assembly
ECAD-000060-CD-CERT 1 of 1 8 27/01/2015 Xgard IQ OLED Module
ECAD-000060-PCB-CERT 1 to 4 8 02/02/2015 Xgard IQ OLED Module
ECAD-000060-PL-CERT 1 of 1 9 23/04/2015 Xgard IQ OLED Module
ECAD-000064-CD-CERT 1 of 1 4 23/09/2014 Xgard IQ iModule Oxygen
ECAD-000064-PCB-CERT 1 to 10 4 23/09/2014 Xgard IQ iModule Oxygen
ECAD-000064-PL-CERT 1 of 1 4 23/09/2014 Xgard IQ iModule Oxygen
ECAD-000076-CD-CERT 1 & 2 8 07/10/2016 Xgard IQ Toxic Sensor Board
ECAD-000076-PCB-CERT 1 to 10 6 24/09/2014 Xgard IQ Toxic Sensor Board
ECAD-000077-CD-CERT 1 of 1 3 26/04/2016 XgardIQ IR Micro PCB
ECAD-000077-PCB-CERT 1 to 10 3 26/04/2016 XgardIQ IR Micro PCB

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ECAD-000077-PL-CERT 1 of 1 3 26/04/2016 XgardIQ IR Micro PCB ECAD-000081-CD-CERT 1 to 6 6 24/11/2014 Xgard IQ Pellistor Sensor ECAD-000081-PCB-CERT 1 to 6 6 24/11/2014 Xgard IQ Pellistor Sensor ECAD-000081-PCB-CERT 1 to 1 10 12/06/2017 Xgard IQ Pellistor Sensor ECAD-000082-PCB-CERT 1 to 10 10 25/08/2015 Xgard IQ Pellistor Sensor ECAD-000082-PCB-CERT 1 to 10 10 25/08/2015 Xgard IQ Pellistor Sensor ECAD-000082-PCB-CERT 1 to 10 10 25/08/2015 Xgard IQ Pellistor Sensor ECAD-000093-PCB-CERT 1 to 11 10 25/08/2015 Xgard IQ Terminal Board With Galvanic Isolation ECAD-000093-PCB-CERT 1 to 11 18 22/06/2016 Xgard IQ Terminal Board With Galvanic Isolation ECAD-000093-PCB-CERT 1 to 1 1 3 08/10/2014 IQ Sensor Internal Connect Board ECAD-000094-CD-CERT 1 to 6 3 10/10/2014 IQ Sensor Internal Connect Board ECAD-000096-PL-CERT 1 to 1 3	Number	Sheet	Issue	Date	Description
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ECAD-000081-PL-CERT 1 of 1 10 12/06/2017 Xgard Q Pellistor Sensor ECAD-000082-PCB-CERT 1 of 1 10 25/08/2015 Xgard IQ Pellistor Sensor ECAD-000082-PCB-CERT 1 to 10 8 08/05/2015 Xgard IQ Pellistor Sensor ECAD-000082-PCB-CERT 1 to 10 10 25/08/2015 Xgard IQ Pellistor Sensor ECAD-000093-CD-CERT 1 of 1 10 25/08/2015 Xgard IQ Pellistor Sensor ECAD-000093-CD-CERT 1 to 11 18 22/06/2016 Xgard IQ Terminal Board With Galvanic Isolation ECAD-000093-PCB-CERT 1 to 11 18 22/06/2016 Xgard IQ Terminal Board With Galvanic Isolation ECAD-000094-PCB-CERT 1 to 1 20 25/10/2018 Xgard IQ Terminal Board With Galvanic Isolation ECAD-00094-PCB-CERT 1 to 1 3 08/10/2014 IQ Sensor Internal Connect Board ECAD-000094-PCB-CERT 1 to 1 3 08/10/2014 IQ Sensor Internal Connect Board ECAD-000098-PCB-CERT 1 to 1 3 08/10/2014 IQ Sensor Internal Connect Board ECAD-000098-PCB-CERT 1 to 1	ECAD-000081-CD-CERT	1 of 1	10	12/06/2017	Xgard IQ Pellistor Sensor
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ECAD-000176-PCB-CERT 1 to 8 1 19/02/2016 Xgar IQ IR Sensor Internal Connect Board ECAD-000176-PL-CERT 1 of 1 1 19/02/2016 Xgar IQ IR Sensor Internal Connect Board ENG-000749 1 to 4 3 2016-07-07 XgardIQ Pellistor Micro Board Modification ENG-000933 1 to 3 2 06/10/2016 Toxic Board Updates for EMC	ECAD-000155-PL-CERT	1 of 1	4	26/02/2015	Xgard IQ Remote Sensor Pod Board
ECAD-000176-PL-CERT 1 of 1 1 19/02/2016 Xgar IQ IR Sensor Internal Connect Board ENG-000749 1 to 4 3 2016-07-07 XgardIQ Pellistor Micro Board Modification ENG-000933 1 to 3 2 06/10/2016 Toxic Board Updates for EMC	ECAD-000176-CD-CERT	1 of 1	1	19/02/2016	Xgar IQ IR Sensor Internal Connect Board
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The above drawings are associated with IECEx BAS 14.0001X and BAS21UKEX0593X and are held with IECEx BAS 14.0012X.



20 Certificate History

Certificate No.	Date	Comments
Baseefa14ATEX0012X	20 May 2015	The release of the prime certificate. The associated test and assessment is documented in Certification Report No's GB/BAS/ExTR14.0009/00 and GB/BAS/ExTR15.0080/00, Project File No's 11/0678 & 11/0679.
		To permit: -
Baseefa14ATEX0012X	28 July 2015	i) Minor circuit changes to the XgardIQ Pellistor Sensor not affecting the original assessment.
Issue 1	28 July 2013	ii) Minor Label changes not affecting the original assessment.
		The associated test and assessment is documented in Certification Report No. GB/BAS/ExTR15.0193/00, Project File No. 15/0430.
		To permit: -
D. C.144/EFY0010V		i) The fitting of vents in the I.S. compartment of the main enclosure and the optional remote sensor housing not affecting the original assessment.
Baseefa14ATEX0012X Issue 2	22 September 2015	ii) Minor circuit and PCB layout changes to one of the boards fitted in the XgardIQ Pellistor Sensor not affecting the original assessment.
		The associated test and assessment is documented in Certification Report No. GB/BAS/ExTR15.0242/00, Project File No. 15/0576.
Baseefa14ATEX0012X	28 October 2015	To permit minor circuit and PCB layout changes to the XgardIQ Terminal Board not affecting the original assessment.
Issue 3	28 October 2013	The associated test and assessment is documented in Certification Report No. GB/BAS/ExTR15.0292/00, Project File No. 15/0699.
		This issue of the certificate permits: -
Baseefa14ATEX0012X Issue 4	14 July 2016	i) The fitting of an alternative Infra-red (IR) sensor to the equipment. The sensor comprises a component certified flameproof IR gas sensor mounted on amplifier board. This together with a microcontroller board is mounted inside the same plastic enclosure as the other XgardIQ sensors.
		Due to the ambient temperature range of the component certified IR gas sensor, when fitted with this sensor the XgardIQ ambient temperature range is reduced to -20°C to +55°C. As a result of this, the XgardIQ certification label has been revised to indicate the ambient temperature range is dependent on the sensor fitted. The Certificate Schedule and Specific Conditions of Use have been revised to list the relevant ambient temperature ranges against each of the four sensor types and specify to the end user the ambient temperature range is dependent on the sensor fitted.
		ii) Minor circuit and PCB changes to the XgardIQ Terminal Board not affecting the original assessment.
		iii) Minor circuit changes to the XgardIQ Toxic Sensor board to permit the fitting of alternative 2-terminal Toxic sensor modules to the existing PCB. The circuit changes to the board and the addition of the alternative sensor modules do not affect the original assessment.
		iv) Minor circuit changes to the HART interface circuitry on the XgardIQ Display Board. As a result of the changes, the HART



Certificate No.	Date	Comments
		communicator contacts output parameters have been revised in the Certificate Schedule to $U_o=5V,I_o=13.3\text{mA},P_o=17\text{mW},C_i=1.1\text{nF}$ & Li = 0. These changes do not affect the original assessment of the contacts.
		v) Minor drawing changes not affecting the original assessment.
		vi) To confirm the current design of the XgardIQ have been reviewed against the requirements of EN 60079-1: 2014 in respect of the differences from EN 60079-1: 2007, and with exception of the markings, the changes do not affect the original assessment.
		In accordance with the marking requirements of EN 60079-1: 2014, the equipment is now marked:
		⟨Ex⟩ II 2G Ex db ia IIC T4 Gb
		The associated test and assessment is documented in Certification Report No. GB/BAS/ExTR16.0177/00, Project File No. 16/0158.
		This issue of the certificate permits: -
		i) Minor circuit changes to the XgardIQ Toxic Sensor board not affecting the original assessment.
Baseefa14ATEX0012X	2 November 2016	ii) Minor changes to the conformal coating of the amplifier board fitted in the Infra-red (IR) sensor not affecting the original assessment.
Issue 5		iii) Minor mechanical changes to the modified XgardIQ Terminal Board not affecting the original assessment.
		iv) Minor change to the main certification label not affecting the original assessment.
		The associated test and assessment is documented in Certification Report No. GB/BAS/ExTR16.0296/00, Project File No. 16/0715.
Baseefa14ATEX0012X Issue 6	1 March 2017	To permit a minor mechanical change to the remote sensor housing and the fitting of an optional gasket on the display compartment of the main enclosure not affecting the original assessment.
issue 0		The associated assessment is documented in Certification Report No. GB/BAS/ExTR17.0027/00, Project File No. 17/0062.
		This issue of the certificate permits: -
Baseefa14ATEX0012X Issue 7		i) Minor circuit and mechanical changes to the XgardIQ Pellistor Sensor not affecting the original assessment.
	24 July 2017	ii) To permit minor changes to the Sun Shade accessory not affecting the original assessment.
		The associated test and assessment is documented in Certification Report No. GB/BAS/ExTR17.0206/00, Project File No. 17/0380.
	15 November 2018	This issue of the certificate permits: -
Baseefa14ATEX0012X		i) Minor circuit changes to the XgardIQ Terminal Board not affecting the previous assessment of the equipment.
Issue 8		ii) Minor drawing changes not affecting the previous assessment. Drawing No. ECAD-000093-PCB-CERT Issue 12 & ENG-000864 Issue 5 previously listed were made obsolete.



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Certificate No.	Date	Comments		
		The associated test and assessment is documented in Certification Report No. GB/BAS/ExTR18.0272/00, held with IECEx BAS 14.0001X Iss. 8, Project File No. 18/0641.		
Baseefa14ATEX0012X Issue 9	27 November 2020	 This issue of the certificate permits: The fitting of alternative toxic sensor modules to the XgardIQ Toxic Sensor board. The fitting of these sensors does not affect the previous test and assessment of the equipment. To confirm the current design of the XgardIQ has been reviewed against the requirements of EN IEC 60079-0: 2018 in respect of the differences from EN 60079-0: 2012 + A11: 2013, and none of the differences affect the previous test and assessment. The associated test and assessment is documented in Certification Report No. GB/BAS/ExTR20.0151/00, held with IECEx BAS 14.0001X Iss. 9. Project File No. 20/0488. 		
Baseefa14ATEX0012X Issue 10	15 November 2022	To permit the use of an alternative potting compound on the OLED display. Also, to permit additional minor changes to the certificate and labels not affecting the previous certification. The associated test and assessment is documented in Certification Report No. GB/BAS/ExTR22.0119/00. Project File No. 21/0225.		