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 Number: **Baseefa09ATEX0206X – Issue 6**

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: **IR Gas Detector**

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. Baseefa09ATEX0206X 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. **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 60079-31: 2014**

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 :

Ⓔx II 2GD **Ex db IIC T6 Gb** **(Tamb = -40°C to +50°C)**

Ex db IIC T4 Gb **(Tamb = -40°C to +75°C)**

Ex tb IIIC T135°C Db **(Tamb = -40°C to +75°C)**

SGS Baseefa Customer Reference No. **0249** Project File No. **20/0653**

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13 # Schedule

14 ## Certificate Number Baseefa09ATEX0206X – Issue 6

15 Description of Product

The IR Gas Detector comprises a stainless steel housing with a transparent sapphire detector window fitted to the end and clamped in place. A protective weatherproof cover manufactured in an antistatic plastic material is fitted over the sapphire detector window. The housing contains optics and a stacked PCB assembly. At the opposite end to the window is an M50 threaded stainless steel endplate, secured against unintentional removal by a securing plate fixed in position by cap screws with an internal hexagon head.

The internal circuits of the IR Gas Detector circuits are rated up to a maximum of 32V and 5W.

Two cable entry holes are provided as specified on the certified drawings for the accommodation of a flameproof cable entry device, with or without the interposition of a flameproof thread adapter. One cable entry is M20, the other is ½" NPT. The thread form for each cable entry is identified on the body of the IR Gas Detector by etched markings.

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

Any unused cable entry holes must be fitted with a suitable flameproof stopping plug certified as Equipment (not a Component).

16 Report Number

See certificate history.

17 Specific Conditions of Use

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

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements (EHSRs) is not affected by this variation. 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.

The performance of the gas sensor has not been assessed. The gas sensor must not be used in a safety system without further assessment

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
6690-CERT	1	11	18/09/2019	IR Detector Cert Label

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
6651-CERT	1	20	10/04/2018	IREX/IRMax II General Assembly
6705-CERT	1	08	08/11/2017	I.S. Interface
6029	1	03	08/11/2017	Barrier Outer Ring

These drawings are common to Baseefa09ATEX0220X and IECEx BAS 09.0104X and are held on the latter

20 Certificate History

Certificate No.	Date	Comments
Baseefa09ATEX0206X	15 April 2010	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2009 and EN 60079-1:2007 is recorded in Test Report GB/BAS/ExTR09.0155/00. Project File 09/0230.
Baseefa09ATEX0206X/1	26 October 2010	To permit the up-issue of certification drawings with no change to the design. The associated assessment is recorded in Test Report GB/BAS/ExTR10.0243/00. Project File 10/0788.
Baseefa09ATEX0206X/2	15 November 2011	To confirm the equipment has been additionally assessed against the requirements of EN 60079-0:2009 and EN 60079-31:2009. There is a new marking code that includes the Dust Protection coding. The equipment design was not changed at this point. The associated test and assessment is recorded in GB/BAS/ExTR11.0292/00. Project File 10/0981.
Baseefa09ATEX0206X/3	2 May 2012	To permit an alternative optional cement to be used on the equipment not affecting the original assessment. The associated test and assessment is recorded in GB/BAS/ExTR12.0063/00. Project File 12/0221.
Baseefa09ATEX0206X/4	24 April 2013	To permit a minor marking change on the Main Gas Detector Housing not affecting the original assessment. The associated test and assessment is recorded in GB/BAS/ExTR13.0064/00. Project File 12/0914.
Baseefa09ATEX0206X Issue 5	17 May 2018	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the updated requirements of EN 60079-0:2012+A11:2013, EN 60079-1:2014 and EN 60079-31: 2014 including the revision of the equipment marking in accordance with these standards. Minor dimensional drawing changes which do not affect the certification Re-classification of window joint from a flanged flamepath to a cemented joint The associated assessment is recorded in Test Report GB/BAS/ExTR16.0258/00. Project File 16/0617.
Baseefa09ATEX0206X Issue 6	11 October 2021	To update certification to the latest editions of the applied standards. The associated assessment is recorded in Test Report GB/BAS/ExTR21.0146/00. Project File 20/0653.
For drawings applicable to each issue, see original of that issue.		