

1 **EU - TYPE EXAMINATION CERTIFICATE**

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

3 EU - Type Examination Certificate **Baseefa09ATEX0251U – 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: **Type IREX/IRMAX Spigot Assembly**

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. Baseefa09ATEX0251U 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 60079-0:2012 + A11: 2013 EN 60079-1: 2014

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

10 The sign “U” is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

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 :

⊕ I M2 Ex db I Mb and/or II 2 G Ex db IIC Gb

SGS Baseefa Customer Reference No. **0249**

Project File No. **16/0616**

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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RS Sinclair
R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

M Rowney
M ROWNEY
CERTIFICATION
MANAGER

13

Schedule

14

Certificate Number Baseefa09ATEX0251U – Issue 3

15 Description of Product

Type IREX/IRMAX Spigot Assembly, comprising a cylindrical stainless steel housing assembly with 3 or 5 insulated conductor wires of 0.28mm² cross sectional area, encapsulated in place with epoxy sealing compound. The maximum rating of the spigot assembly is 1.12A. The individual cables are each rated at up to 4.0A/mm² and are located and separated by the machined holes in the assembly. The interior wall is threaded to assist retention of the potting.

The bushing may be mounted by the external thread at the top or the bottom. The interface spigot thread may be sized M20 or ½” NPT and the connection spigot thread is M20.

16 Report Number

See Certificate History

17 Schedule of Limitations

1. When the spigot assembly is mounted in the wall of a IIC enclosure, using the interface spigot thread (end with locking ring), it must be subjected to an appropriate flame transmission test as part of the enclosure.
2. When the unit is used in the wall of a IIC enclosure with a volume $\geq 2000 \text{ cm}^3$, it must only be mounted using the connection spigot thread (end opposite locking ring).
3. The service temperature of the bushings must be between -40°C and +75°C.
4. The wires must be appropriately supported to prevent any tensile force.
5. The bushings must be protected from light.
6. For Group I use the bushings must be protected from chemical contamination.

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:

| Clause | Subject | Compliance |
|--------|-----------------------------|--|
| 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

New drawings submitted for this issue of certificate:

| Number | Sheet | Issue | Date | Description |
|-----------|-------|-------|------------|------------------------|
| 5963-CERT | 1 | 7 | 26/09/2017 | Interface Locking Ring |
| 6618 CERT | 1 | 7 | 26/09/2017 | ATEX Spigot Assembly |

Current drawings which remain unaffected by this issue:

None

20 Certificate History

| Certificate No. | Date | Comments |
|--|------------------|---|
| Baseefa09ATEX0251U | 8 December 2009 | The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2007 and EN 60079-1:2007 documented in Test Report No. GB/BAS/ExTR09.0160/00. Project File 08/0336. |
| Baseefa09ATEX0251U/1 | 26 October 2010 | To permit the reformatting of the certification drawings, the physical design has not changed. The associated assessment is documented in Test Report No. GB/BAS/ExTR10.0244/00. Project File 10/0789. |
| Baseefa09ATEX0251U/2 | 6 September 2012 | To permit the use of a sealing washer on the M20 Thread of the assembly. The associated assessment is documented in Test Report No. GB/BAS/ExTR12.0224/00. Project File 12/0687. |
| Baseefa09ATEX0251U - Issue 3 | 6 February 2018 | This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN 60079-0:2012+A11:2013 & EN 60079-1:2014 including the revision of the equipment marking in accordance with these standards. The associated assessment is documented in Test Report No. GB/BAS/ExTR16.0247/00. Project File 16/0616. |
| For drawings applicable to each issue, see original of that issue. | | |



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment**
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC

3 Supplementary EC - Type **Baseefa09ATEX0251U/2**
Examination Certificate Number:

4 Component: **Type IREX/IRMAX Spigot Assembly**

5 Manufacturer: **Crowcon Detection Instruments Limited**

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa09ATEX0251U to apply to components 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. **12/0687**

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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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



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Schedule

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Certificate Number Baseefa09ATEX0251U/2

15 **Description of the variation to the Component**

Variation 2.1

To allow the use of a sealing washer on the M20 thread on the IREX Spigot Assembly

16 **Report Number**

Baseefa Certification Report GB/BAS/ExTR12.0224/00

17 **Schedule of Limitations**

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 |
|-----------|-------|------------|----------------------|
| 6618 CERT | 4 | 10/09/2010 | ATEX Spigot Assembly |



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment**
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC

3 Supplementary EC - Type Examination Certificate Number: **Baseefa09ATEX0251U/1**

4 Component: **Type IREX/IRMAX Spigot Assembly**

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. **Baseefa09ATEX0251U** to apply to components 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. **10/0789**

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RS SINCLAIR 
DIRECTOR
On behalf of
Baseefa



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Certificate Number Baseefa09ATEX0251U/1

15 **Description of the variation to the Component**

Variation 1.1

To permit the reformatting, and therefore up issue, of the certification drawings. The physical design of the IREX/IRMAX Spigot Gland Assembly is not altered in any way.

16 **Report Number**

Baseefa Certification Report GB/BAS/ExTR10.0244/00

17 **Schedule of Limitations**

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 |
|-----------|--------|-------|------------|------------------------------------|
| 6618-CERT | 1 of 1 | 3 | 10/09/2010 | IREX/IRMAX Spigot Gland Assembly |
| 5963-CERT | 1 of 1 | 3 | 10/09/2010 | IREX Interface Spigot locking Ring |

The above drawings are common to IECEx BAS 09.0122U and are held with that certificate.



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System**
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC

3 EC - Type Examination Certificate Number: **Baseefa09ATEX0251U**

4 Component: **Type IREX/IRMAX Spigot Assembly**

5 Manufacturer: **Crowcon Detection Instruments Limited**

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

7 This component 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components 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/ExTR09.0160/00**

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

EN 60079-0: 2007

EN 60079-1: 2007

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

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

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

12 The marking of the component shall include the following :

⊕ I M2 Ex d I Mb and/or II 2 G Ex d II Gb

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

Baseefa Customer Reference No. **0249**

Project File No. **08/0336**

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Schedule

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Certificate Number Baseefa09ATEX0251U

15 Description of Component

Type IREX/IRMAX Spigot Assembly, comprising a cylindrical stainless steel housing assembly with 3 or 5 insulated conductor wires of 0.28mm² cross sectional area, encapsulated in place with epoxy sealing compound. The maximum rating of the spigot assembly is 1.12A. The individual cables are each rated at up to 4.0A/mm² and are located and separated by the machined holes in the assembly. The interior wall is threaded to assist retention of the potting.

The bushing may be mounted by the external thread at the top or the bottom. The interface spigot thread may be sized M20 or ½" NPT and the connection spigot thread is M20.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR09.0160/00

17 Schedule of Limitations

1. When the spigot assembly is mounted in the wall of a IIC enclosure, using the interface spigot thread (end with locking ring), it must be subjected to an appropriate flame transmission test as part of the enclosure.
2. When the unit is used in the wall of a IIC enclosure with a volume $\geq 2000 \text{ cm}^3$, it must only be mounted using the connection spigot thread (end opposite locking ring).
3. The service temperature of the bushings must be between -40°C and $+75^\circ\text{C}$.
4. The wires must be appropriately supported to prevent any tensile force.
5. The bushings must be protected from light.
6. For Group I use the bushings must be protected from chemical contamination.

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 |
|-----------|-------|-------|-------|------------------------------------|
| 6618-CERT | 1 | 2 | 11-09 | IREX/IRMAX Spigot Gland Assembly |
| 5963-CERT | 1 | 2 | 11-09 | IREX Interface Spigot Locking Ring |