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: **Baseefa11ATEX0149X**

4 Equipment or Protective System: **487 Stopping Plug**

5 Manufacturer: **Hawke International (A Division of Hubbell Limited)**

6 Address: **Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA**

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. **GB/BAS/ExTR11.0165/00**

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

EN 60079-0: 2009 **EN60079-1: 2007** **EN 60079-7: 2007** **EN 60079-31: 2009**

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 :

I M2 / II 2GD Ex d I Ex e I Mb Ex d IIC Ex e IIC Gb Ex tb IIIC Db (-60°C to + 80°C, -60°C to + 160°C or -60°C to +200°C, see schedule)

⟨Ex⟩ **or**

II 2 GD Ex d IIC Ex e IIC Gb Ex tb IIIC Db (-60°C to +80°C, -60°C to +160°C, or -60°C to +200°C, see schedule) when manufactured in aluminium

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

Baseefa Customer Reference No.**0500**

Project File No.**11/0129c**

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.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa

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Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

13 **Schedule**

14 **Certificate Number Baseefa11ATEX0149X**

15 Description of Equipment or Protective System

The Type 487 Range of Stopping Plugs is manufactured in brass, steel, stainless steel or aluminium and is designed for the closure of unused entries in flameproof, increased safety or dust protected enclosures. The range covers sizes with metric threads from M16 to M130, other parallel thread forms of equivalent sizes, for example electrical conduit (ET), Pg or BSPP are provided.

Each plug has a threaded portion, 15mm to 20mm long as a minimum, depending on the thread type and size, and a larger circular head with a tapered shoulder. The stopping plug is manufactured with a broached hexagon hole in the larger diameter which is intended for tightening purposes. The underside of the shouldered head may be machined with a groove into which a nitrile or silicone rubber O-ring may be fitted to provide sealing to an associated enclosure.

The stopping plugs, when provided with the O rings and fitted in to suitable equipment, is capable of meeting the requirements of IP66/IP67

16 Report Number

Baseefa Certification Report GB/BAS/ExTR11.0165/00

17 Special Conditions for Safe Use

1 The maximum operation temperature range of the stopping plug when fitted with a nitrile O-ring is -60°C to +80°C.

2. The maximum operating temperature range of the stopping plug when fitted with a silicone O-ring is -60°C to +160°C.

3. The maximum operating temperature range of the stopping plug when fitted with no O ring is -60°C to +200°C.

4. When the stopping plug is fitted in plain holes in increased safety or dust protected enclosures the sealing face of the enclosure is to be smooth and the hole no larger than 0.7mm above the major diameter of the male thread on the stopping plug. The stopping plug is to be secured with a locknut and optional locking washer.

5. When fitted in threaded holes the sealing face of the enclosure is to be smooth, the threaded hole perpendicular to the wall of the enclosure and the thread medium fit.

6. When the stopping plugs are used for increased safety or dust protection and no O Ring is fitted the user is to ensure that the enclosure and stopping plug interface is suitably sealed, in accordance with EN 60079-14, to maintain the ingress protection rating of the associated enclosure and protection concept.

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	Issue	Date	Description
487	A	24/01/11	Dual Exe/Exd Group 1 and Group II Stopping Plug

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:	**Baseefa11ATEX0149X/1**
4	Equipment or Protective System:	**487 Stopping Plug**
5	Manufacturer:	**Hawke International (A Member of Hubbell Limited) (A Division of the Hubbell Group of Companies)**
6	Address:	**Oxford Street West. Ashton-under-Lyne, Lancashire, OL7 0NA**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa11ATEX0149X 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. **0500**

Project File No. **13/0599**

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

R S SINCLAIR
GENERAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa11ATEX0149X/1**

15 Description of the variation to the Equipment or Protective System

Variation 1.1

To allow the reduction of the diameter of optional sealing O-ring on M16, M20 and M25 plugs, to improve retention

16 Report Number

GB/BAS/ExTR13.0164/00

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	Issue	Date	Description
487	B	22/07/13	Dual Ex e/Ex d Group I & Group II Stopping Plug

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:	**Baseefa11ATEX0149X/2**
4	Equipment or Protective System:	**487 Stopping Plug**
5	Manufacturer:	**Hawke International (A Member of Hubbell Ltd) (A Division of the Hubbell Group of Companies)**
6	Address:	**Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa11ATEX0149X** 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. **0500**

Project File No. **14/0532**

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R S SINCLAIR
GENERAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa11ATEX0149X/2**

15 Description of the variation to the Equipment or Protective System

Variation 2.1

To allow for an alternative design of the M20 and M25, 487 stopping plug, to allow for the external fitting of an optional suitably certified passive RFID transponder for equipment identification.

16 Report Number

GB/BAS/ExTR14.0223/00 held with IECEx BAS 11.0071X.

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
487*	1	C	24/06/2014	Dual Ex e/Ex d Group I and Group II Stopping Plug
487*	2	C	24/06/2014	Dual Ex e/Ex d Group I and Group II Stopping Plug with RFID

*These drawings are common to Baseefa11ATEX0149X and held with IECEX BAS 11.0071X.

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:	**Baseefa11ATEX0149X/3**
4	Equipment or Protective System:	**487 Stopping Plug**
5	Manufacturer:	**Hawke International (A Member of the Hubbell Limited) (A Division of the Hubbell Group of Companies).**
6	Address:	**Oxford Street West, Ashton-Under-Lyne, Lancashire, OL7 0NA**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa11ATEX0149X 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 60079-1:2014 EN 60079-7:2007 EN 60079-31:2014

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

9 The marking of the equipment is not changed from the original Certificate.

This certificate shall be held with the original certificate.

Baseefa Customer Reference No. **0500** Project File No. **15/0101**

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R S SINCLAIR pp D BRADLEY
GENERAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa11ATEX0149X/3**

15 Description of the variation to the Equipment or Protective System

Variation 3.1

To confirm that the stopping plugs covered by this certificate have been reviewed and confirmed as being in compliance with the latest standards as listed at item 8.

16 Report Number

SGS Baseefa Report Number GB/BAS/ExTR 15.0032/00

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
487	1 of 2	D	02/02/2015	Dual Ex e / Ex d Group I and Group II Stopping Plug
487	2 of 2	D	02/02/2015	Dual Ex e / Ex d Group I and Group II Stopping Plug With IRFD

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 Examination Certificate Number: **Baseefa11ATEX0149X/4**

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: **487 Stopping Plug**

5 Manufacturer: **Hawke International (A Division of Hubbell Limited)**

6 Address: **Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa11ATEX0149X** 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 60079-7:2015 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:

Ⓔx I M2 Ex db I Ex eb I Mb

Ⓔx II 2 GD Ex db IIC Ex eb IIC Gb (-60°C to +80°C or -60°C to +160°C or -60°C to +200°C) see schedule
Ex tb IIIC Db

or

Ⓔx II 2 GD Ex db IIC Ex eb IIC Gb
Ex tb IIIC Db (-60°C to +80°C or -60°C to +160°C or -60°C to +200°C) see schedule
when manufactured from aluminium

SGS Baseefa Customer Reference No. **0500** Project File No. **16/0801**

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Re-issued 31st January 2017 to replace original

R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa11ATEX0149X/4**

15 Description of the variation to the Product

Variation 4.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2012+A11:2013, EN 60079-1:2014, EN 60079-7:2015 and EN 60079-31:2014 in respect of 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/ExTR16.0322/00

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
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
487	1 & 2	E	23/11/2016	General Assembly – Stopping Plug

This drawing is common to this certificate and held with IECEx BAS 11.0071X.

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: **Baseefa11ATEX0149X – Issue 5**

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: **487 Stopping Plug**

5 Manufacturer: **Hawke International (A Division of Hubbell Limited)**

6 Address: **Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA**

7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa11ATEX0149X** 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 EN 60079-7:2015 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 I M2	**Ex db I Ex eb I Mb**
Ⓔx II 2 GD	**Ex db IIC Ex eb IIC Gb** **Ex tb IIIC Db (-60°C to +80°C or -60°C to +160°C or -60°C to +200°C) see schedule**
or	
Ⓔx II 2 GD	**Ex db IIC Ex eb IIC Gb** **Ex tb IIIC Db (-60°C to +80°C or -60°C to +160°C or -60°C to +200°C) see schedule when manufactured from aluminium**

SGS Baseefa Customer Reference No. **0500** Project File No. **17/0210**

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pp McPonney McPONNEY
R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 # Schedule

14 ## Certificate Number Baseefa11ATEX0149X – Issue 5

15 Description of Product

The Type 487 Range of Stopping Plugs is manufactured in brass, steel, stainless steel or aluminium and is designed for the closure of unused entries in flameproof, increased safety or dust protected enclosures. The range covers sizes with metric threads from M16 to M130, other parallel thread forms of equivalent sizes, for example electrical conduit (ET), Pg or BSPP are provided.

Each plug has a threaded portion, 15mm to 20mm long as a minimum, depending on the thread type and size, and a larger circular head with a tapered shoulder. The stopping plug is manufactured with a broached hexagon hole in the larger diameter which is intended for tightening purposes. The underside of the shouldered head may be machined with a groove into which a nitrile or silicone rubber O-ring may be fitted to provide sealing to an associated enclosure.

The stopping plugs, when provided with the O rings and fitted in to suitable equipment, is capable of meeting the requirements of IP66/IP67

The M20 and M25 version of the stopping plugs can be fitted with an optional suitably certified RFID transponder which screws into a clearance hole beneath the main hexagonal Allen cap socket.

16 Report Number

SGS Baseefa Report Reference Number: - GB/BAS/ExTR17.0095/00

17 Specific Conditions of Use

1 The maximum operation temperature range of the stopping plug when fitted with a nitrile O-ring is -60°C to +80°C.

2. The maximum operating temperature range of the stopping plug when fitted with a silicone O-ring is -60°C to +160°C.

3. The maximum operating temperature range of the stopping plug when fitted with no O ring is -60°C to +200°C.

4. When the stopping plug is fitted in plain holes in increased safety or dust protected enclosures the sealing face of the enclosure is to be smooth and the hole no larger than 0.7mm above the major diameter of the male thread on the stopping plug. The stopping plug is to be secured with a locknut and optional locking washer.

5. When fitted in threaded holes the sealing face of the enclosure is to be smooth, the threaded hole perpendicular to the wall of the enclosure and the thread medium fit.

6. When the stopping plugs are used for increased safety or dust protection and no O Ring is fitted the user is to ensure that the enclosure and stopping plug interface is suitably sealed, in accordance with EN 60079-14, to maintain the ingress protection rating of the associated enclosure and protection concept.

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	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
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
487	1	F	14/03/17	Dual Exe/Exd Group 1 and Group II Stopping Plug
487	2	F	14/03/17	Dual Exe/Exd Group 1 and Group II Stopping Plug with RFID

*These drawings are common to Baseefa11ATEX0149X and held with IECEX BAS 11.0071X

Current drawings which remain unaffected by this issue:

None

20 Certificate History

Certificate No.	Date	Comments
Baseefa11ATEX0149X	26 August 2011	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007 and EN 60079-31:2009 is documented in Test Report No. GB/BAS/ExTR11.0165/00. Project File 11/0129c.
Baseefa11ATEX0149X/1	01 August 2013	To permit the reduction of the diameter of the optional sealing O-Ring on M16, M20 and M25 plugs, to improve retention. The associated test and assessment is recorded in Test Report Number GB/BAS/ExTR13.0164/00. Project File 13/0599.
Baseefa11ATEX0149X/2	05 September 2014	To permit an alternative design of the M20 and M25, 487 stopping plug, to allow for the external fitting of an optional suitably certified RFID transponder for equipment identification. The associated test and assessment is recorded in Test Report Number GB/BAS/ExTR14.0223/00. Project File 14/0532.
Baseefa11ATEX0149X/3	06 February 2015	To review the equipment against the updated requirements of EN 60079-0:2012, EN 60079-1:2014, EN 60079-7:2007 and EN 60079-31:2014 and the differences with respect the standards when the certificate was issued The associated test and assessment is recorded in Test Report Number GB/BAS/ExTR15.0032/00. Project File 15/0101.
Baseefa11ATEX0149X/4	05 January 2017	To review the equipment against the updated requirements of EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-7:2015 and EN 60079-31:2014 in respect of differences from the standards to which the previous supplementary was issued. The associated test and assessment is recorded in Test Report Number GB/BAS/ExTR16.0322/00. Project File 16/0801.
Baseefa11ATEX0149X – Issue 5	22 March 2017	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and permits a change in the internal screw thread size from M5 to a maximum of M5 for use with different size RFID screws. The associated test and assessment is recorded in Test Report Number GB/BAS/ExTR17.0095/00. Project File 17/0210.
For drawings applicable to each issue, see original of that issue.		