IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx BAS 12.0057X**

Page 1 of 4

Certificate history:

Issue 2 (2018-08-09)
Issue 1 (2013-03-13)
Issue 0 (2013-03-13)

Status: **Current**

Issue No: 3

Date of Issue: 2019-08-15

Applicant: **Acez Sensing Pte Limited**
2 Joo Koon Circle
629031
Singapore

Equipment: **Temperature Housings and Probes**

Optional accessory:

Type of Protection: **Flameproof and Increased safety**

Marking: **Ex db eb IIC T* Gb (Ta = -**°C to +**°C) *&** - See Schedule**

Approved for issue on behalf of the IECEx Certification Body: **R S Sinclair**

Position: **Technical Manager**

Signature: (for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom

IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 12.0057X**

Date of issue: 2019-08-15 Issue No: 3

Manufacturer: **Acez Sensing Pte Limited**
2 Joo Koon Circle
629031
Singapore

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/BAS/ExTR12.0071/00 GB/BAS/ExTR13.0029/00 GB/BAS/ExTR18.0143/00
GB/BAS/ExTR19.0155/00

Quality Assessment Report:

GB/BAS/QAR13.0002/03

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The temperature housing and probe comprise of a type XD-AD housing to IECEx FMG 06.0003U, or types 1080St or 1080WT to IECEx SIR 09.0006U. The housing contains a terminal head or a temperature transmitter. The transmitter is limited to a maximum rating of 1.5 W.

The probes to IECEx BAS 12.0056X are attached to the NPT entry at the rear of the housings.

The temperature probe and housing is rated up to 1.5 W.

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 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 Equipment (not a Component).

SPECIFIC CONDITIONS OF USE: YES as shown below:
1. When fitted, The Spring Loaded Type (SLT) temperature probes have a flamepath length of 17 mm.

2. The welded (WT) and spring loaded (SLT) temperature probes minimum bend radius shall be 300 mm or greater. The bent type (BT) temperature probe has a minimum bend radius of 26 mm.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Variation 3.1

To clarify the type name as the Temperature Detector Type 2010 WT or Temperature Detector Type 2010 SLT or Temperature Detector Type 2010 BT.

Housing	Probe	Marking
Type AS-XD (A/S) Type 1080St / 1080WT Type XD-AD	Type 2010 SLT or Type 2010 WT	Ex db eb IIC T5 Gb (Ta = -30°C to +80°C) or Ex db eb IIC T6 Gb (Ta = -30°C to +65°C)
Type 1080St / 1080WT	Type 2010 BT (Model ATEX-03)	Ex db eb IIC T6 Gb (Ta = -40°C to +65°C)
Type AS-XD (A/S)	Type 2010 BT (Model ATEX-03)	Ex db eb IIC T6 Gb (Ta = -30°C to +65°C)
Type XD-AD	Type 2010 BT (Model ATEX-03)	Ex db eb IIC T6 Gb (Ta = -20°C to +65°C)

Variation 3.2

To confirm that the equipment been reviewed against the requirements of IEC 60079-0: 2017, IEC 60079-1: 2014 and IEC 60079-7: 2015.

Variation 3.3

To introduce the Specific Condition of Use Number 1 relating to the flamepath of the Spring Loaded Type temperature probe, when fitted

Variation 3.4

To introduce the Specific Condition of Use Number 2 relating to minimum bending radius of the temperature probes

Variation 3.5

To note the new IECEx Ex component certificate number for the Type XD-AD housing to IECEx FTZU 14.0003U. The old Type XD-AD housing certificate number of IECEx FMG 06.0003U is deleted form certification.

ExTR: **GB/BAS/ExTR19.0155/00** File Reference: **18/0745**

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx BAS 12.0056X**

Certificate history:
Issue 2 (2018-08-09)
Issue 1 (2013-03-13)
Issue 0 (2013-03-13)

Status: **Current**

Issue No: 3

Date of Issue: 2019-08-15

Applicant: **Acez Sensing Pte Limited**
2 Joo Koon Circle
629031
Singapore

Equipment: **Temperature Probes**

Optional accessory:

Type of Protection: **Flameproof and Increased safety**

Marking: **Ex db eb IIC T* Gb (Ta = -**°C to +**°C) *&** - See Schedule**

Approved for issue on behalf of the IECEx Certification Body: **R S Sinclair**

Position: **Technical Manager**

Signature:
(for printed version)

Date:

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2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
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Buxton, Derbyshire, SK17 9RZ
United Kingdom

IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 12.0056X**

Date of issue: 2019-08-15 Issue No: 3

Manufacturer: **Acez Sensing Pte Limited**
2 Joo Koon Circle
629031
Singapore

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/BAS/ExTR12.0071/00 GB/BAS/ExTR13.0029/00 GB/BAS/ExTR18.0143/00
GB/BAS/ExTR19.0155/00

Quality Assessment Report:

GB/BAS/QAR13.0002/03

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The spring loaded temperature probe comprises a stainless steel holder threaded at both ends for attachment to a thermowell and for the attachment of the housing. The probe is composed of mineral insulated cable with a 2 or 3 wire temperature sensing device at one end and a potted seal at the other. The probe is of undefined length and of various diameters from 4.5mm to 8mm. A spring within the holder locates the probe end against the thermowell.

The fixed temperature probe is similar to the spring loaded probe however the probe is welded to the probe holder and is available in diameters from 1.6mm to 12.7mm.

The temperature probes are rated up to 300 mW.

SPECIFIC CONDITIONS OF USE: YES as shown below:
1. The Spring Loaded Type (SLT) temperature probes only are limited to flameproof enclosures of volumes not exceeding 2 litres.

2. The Spring Loaded Type (SLT) temperature probes have a flamepath length of 17 mm.

3. The welded (WT) and spring loaded (SLT) temperature probes minimum bend radius shall be 300 mm or greater. The bend type (BT) temperature probe has a minimum bend radius of 26 mm.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Variation 3.1

To clarify the type name as the Type 2010 WT or Type 2010 SLT or Type 2010 BT Temperature Probes (Welded Type or Spring Loaded Type or Bent Type).

The marking of the temperature probes is as follows:-

Probes	Marking
Type 2010 SLT and Type 2010 WT	Ex db eb IIC T5 Gb (Ta = -30°C to +85°C) or Ex db eb IIC T6 Gb (Ta = -30°C to +70°C)
Type 2010 BT (Model ATEX-03)	Ex db eb IIC T6 Gb (Ta = -40°C to +70°C)

Variation 3.2

To confirm that the equipment been reviewed against the requirements of IEC 60079-0: 2017, IEC 60079-1: 2014 and IEC 60079-7: 2015.

Variation 3.3

To clarify that the maximum voltage is 60V.

Variation 3.4

To introduce the Specific Condition of Use Number 2 relating to the flamepath of the Spring Loaded Type temperature probe:-

Variation 3.5

To introduce the Specific Condition of Use Number 3 relating to minimum bending radius:-

ExTR: **GB/BAS/ExTR19.0155/00** File Reference: **18/0745**

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx BAS 18.0014U**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2018-04-03

Applicant: **Acez Sensing Pte Limited**
2 Joo Koon Circle
629031
Singapore

Equipment: **Temperature Housing**

Optional accessory:

Type of Protection: **Flameproof, Dust Ignition protection by enclosure “t”**

Marking: **Ex db IIC Gb**

Ex tb IIIC Db

Approved for issue on behalf of the IECEx Certification Body: **R S Sinclair**

Position: **Technical Manager**

Signature:
(for printed version)

Date:

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Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom

IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 18.0014U**

Date of issue: 2018-04-03 Issue No: 0

Manufacturer: **Acez Sensing Pte Limited**
2 Joo Koon Circle
629031
Singapore

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

GB/BAS/ExTR18.0042/00

Quality Assessment Report:

GB/BAS/QAR13.0002/03

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The temperature enclosure housing is manufactured from either stainless steel or aluminium alloy. The enclosure is comprises of a metric threaded cover with anti-rotational grub screw. There are two threaded entries as described on the drawings one located at bottom for process entry and the other is located on the side for conduit or cable gland entry. The enclosure is provided with external earthing facility and supportive chain to hold the cover with the body. The equipment is considered as component and is marked with symbol 'U'. The following table indicates the maximum external surface temperature as indication when using the component enclosure for an equipment certification:

Power Watts	Current Amps	External surface Rise in Kelvin
10	3.2	28.5
6	2.4	18
3	1.7	10

The schedule of limitations:

1. Temperature housing is provided with two threaded entries defined by the certification drawing as D1 for process entry and D2 for conduit entry and are detailed in table below:

No.	D1 – Process Entry
M1	M20x1.5-6H
M2	M24x1.5-6H
M3	M25x1.5-6H
N1	1/2" NPT
N2	3/4" NPT
N3	1" NPT
B1	1/2" BSP
B2	3/4" BSP
B3	1" BSP

No.	D2 – Conduit Entry
M1	M20x1.5-6H
M2	M24x1.5-6H
N1	1/2" NPT
N2	3/4" NPT

2. Oil filled circuit breakers and contactors shall not be used.
3. The enclosure may be used within an operational temperature range of -30°C to +80°C, subject to assessment of the internal arrangement.
4. The content of temperature housing in any arrangement should provide free area of at least 40% from each cross-section. Depending on end user application this condition may be affected.

SPECIFIC CONDITIONS OF USE: NO

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: **Baseefa11ATEX0023X/2**

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: **Temperature Probes**

5 Manufacturer: **Acez Sensing Pte Limited**

6 Address: **2 Joo Koon Circle, 629031, Singapore**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa11ATEX0023X** 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.

SGS Baseefa Customer Reference No. **6462** Project File No. **18/0070**

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e-mail baseefa@sgs.com web site www.sgs.co.uk/sgsbaseefa
Registered in England No. 4305578.
Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

D BREARLEY
Certification Manager

R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa11ATEX0023X/2**

15 Description of the variation to the Product

Variation 2.1

To introduce the alternative Model Atex-03 temperature probe. The Model Atex-03 temperature probe shall be marked:-

⟨Ex⟩ II 2G Ex d e IIC T6 Gb (Ta -40°C to +70°C)

Variation 2.2

To permit existing information (for example on Schedule Drawings) to be replaced by the revised certificate holders address.

16 Report Number

SGS Baseefa certification report GB/BAS/ExTR18.0143/00.

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
AS-BT-01	1 of 1	R.0	03-07-2018	RTD Sensor Assembly Bend Type (Without Housing)
AS-BT-03	1 of 1	R.0	03-07-2018	RTD Sensor Assembly Bend Type (Without Housing)
AS-TP-10	1 of 1	R.0	03-07-2018	Certification Tag Plate Design 3b

These drawings are common to, and held with, IECEx BAS 12.0056X.

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 Number:	**Baseefa18ATEX0020U**
4	Product:	**Temperature Housing**
5	Manufacturer:	**Acez Sensing Pte Limited**
6	Address:	**2 Joo Koon Circle, 629031, Singapore**

7 This product and any acceptable variation thereto is specified in the schedule 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/ExTR18.0042/00**

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 60079-31:2014**

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 :

Ⓔx II 2 GD **Ex db IIC Gb**
Ex tb IIIC Db IP6X

SGS Baseefa Customer Reference No. **6462** Project File No. **13/0886**

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Registered in England No. 4305578.
Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

M POWNEY
Certification
Manager

13 **Schedule**

14 **Certificate Number Baseefa18ATEX0020U**

15 **Description of Product**

The temperature enclosure housing is manufactured from either stainless steel or aluminium alloy. The enclosure is comprises of a metric threaded cover with anti-rotational grub screw. There are two threaded entries as described on the drawings one located at bottom for process entry and the other is located on the side for conduit or cable gland entry. The enclosure is provided with external earthing facility and supportive chain to hold the cover with the body. The equipment is considered as component and is marked with symbol 'U'. The following table indicates the maximum external surface temperature as indication when using the component enclosure for an equipment certification:

Power Watts	Current Amps	External surface Rise in Kelvin
10	3.2	28.5
6	2.4	18
3	1.7	10

16 **Report Number**

SGS Baseefa Report Number: - GB/BAS/ExTR18.0042/00

17 **Schedule of Limitations**

1. Temperature housing is provided with two threaded entries defined in the component type reference and by the certification drawing as D1 for process entry and D2 for conduit entry and are detailed in table below:

No.	D1 – Process Entry
M1	M20x1.5-6H
M2	M24x1.5-6H
M3	M25x1.5-6H
N1	1/2" NPT
N2	3/4" NPT
N3	1" NPT
B1	1/2" BSP
B2	3/4" BSP
B3	1" BSP

No.	D2 – Conduit Entry
M1	M20x1.5-6H
M2	M24x1.5-6H
N1	1/2" NPT
N2	3/4" NPT

2. Oil filled circuit breakers and contactors shall not be used.
3. The enclosure may be used within an operational temperature range of -30°C to +80°C, subject to assessment of the internal arrangement.
4. The content of temperature housing in any arrangement should provide free area of at least 40% from each cross-section. Depending on end user application this condition may be affected.

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) are not applicable to an empty component enclosure.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
AS – XD – 01(18)	1 of 5	1	30/01/2018	Type XD body machining
AS – XD – 04(18)	2 of 5	1	30/01/2018	Type XD CAP
AS – XD – 05(18)	3 of 5	1	30/01/2018	Type XD CAP
AS – XD – 06(18)	4 of 5	1	30/01/2018	Type XD Model Data
AS – TP – 07(18)	5 of 5	1	30/01/2018	Label marking

These drawings are common to this certificate and are held with IECEx BAS 18.0014U.

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: **Baseefa11ATEX0024/3X**

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: **Temperature Housings and Probes**

5 Manufacturer: **Acez Sensing Pte Limited**

6 Address: **2 Joo Koon Circle, 629031, Singapore**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa11ATEX0024** 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 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 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.

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.

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 IEC 60079-0: 2018 EN 60079-1: 2014 EN 60079-7: 2015

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 II 2G Ex db eb IIC T* Gb (Ta = -°C to +**°C) */** - See Schedule**

SGS Fimko Oy Customer Reference No. **6462** Project File No. **18/0745**

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web site www.sgs.fi
Business ID 0978538-5

M POWNEY
Certification Manager

R S SINCLAIR
Authorised Signatory for SGS Fimko Oy

13 **Schedule**

14 **Certificate Number Baseefa11ATEX0024/3X**

15 Description of the variation to the Product

Variation 3.1

To clarify the type name as the Temperature Detector Type 2010 WT or Temperature Detector Type 2010 SLT or Temperature Detector Type 2010 BT.

Housing	Probe	Marking
Type AS-XD (A/S) Type 1080St / 1080WT Type XD-AD	Type 2010 SLT or Type 2010 WT	**Ⓔx II 2G Ex db eb IIC T5 Gb (Ta = -30°C to +80°C) or Ⓔx II 2G Ex db eb IIC T6 Gb (Ta = -30°C to +65°C)**
Type 1080St / 1080WT	Type 2010 BT	**Ⓔx II 2G Ex db eb IIC T6 Gb (Ta = -40°C to +65°C)**
Type AS-XD (A/S)	Type 2010 BT	**Ⓔx II 2G Ex db eb IIC T6 Gb (Ta = -30°C to +65°C)**
Type XD-AD	Type 2010 BT	**Ⓔx II 2G Ex db eb IIC T6 Gb (Ta = -20°C to +65°C)**

Variation 3.2

To confirm that the equipment been reviewed against the requirements of IEC 60079-0: 2017, IEC 60079-1: 2014 and IEC 60079-7: 2015.

Variation 3.3

To introduce Specific Conditions of Use

Variation 3.5

To note the new IECEx Ex component certificate number for the Type XD-AD housing to IECEx FTZU 14.0003U. The old Type XD-AD housing certificate number of IECEx FMG 06.0003U is deleted form certification.

16 Report Number

SGS Baseefa certification report GB/BAS/ExTR19.0155/00.

17 Specific Conditions of Use

The following two Specific Conditions of Use have been introduced:-

1. When fitted, The Spring Loaded Type (SLT) temperature probes have a flamepath length of 17 mm.
2. The welded (WT) and spring loaded (SLT) temperature probes minimum bend radius shall be 300 mm or greater. The bend type (BT) temperature probe has a minimum bend radius of 26 mm.

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	Pass
1.2.8	Overloading of equipment (protection relays, etc.)	Pass
1.4.1	External effects	Pass
1.4.2	Aggressive substances, etc.	Pass

19 Drawings and Documents

The following drawings supersede and replace all previous drawings.

Number	Sheets	Issue	Date	Description
AS-SLT-01**	1	2	25-06-2019	Explosion Proof Sensor Assembly, Hexagonal Spring Loader, Terminal Block with Housing
AS-SLT-02**	1	2	25-06-2019	Explosion Proof Sensor Assembly, Hexagonal Spring Loader, Transmitter with Housing
AS-WT-01**	1	2	25-06-2019	Explosion Proof Sensor Assembly, Hexagonal Welded Fitting, Terminal Block with Housing
AS-WT-02**	1	2	27-06-2019	Explosion Proof Sensor Assembly, Hexagonal Welded Fitting, Transmitter with Housing
AS-BT-02**	1	1	25-06-2019	RTD Sensor Assembly Bend Type (With Housing)
AS-BT-04**	1	1	25-06-2019	RTD Sensor Assembly Bend Type (With Housing) [With Nipple]
AS-TP-01**	1	0	25-06-2019	Certification Tag Plate-01 (T5 Rating for three heads)
AS-TP-02**	1	0	25-06-2019	Certification Tag Plate-02 (T6 Rating for three heads)
AS-TP-05**	1	0	25-06-2019	Certification Tag Plate-05 (T6 rating) (BT three heads)

** These drawing are common to Baseefa11ATEX0024X and IECEx BAS 12.0057X and are held with the latter.