

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: **Baseefa10ATEX0066X/8**

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: **ELDS Open Path Gas Detector System**

5 Manufacturer: **Senscient Limited**

6 Address: **Unit F1, Arena Business Centre, Holy Rood Close, Poole  
Dorset, BH17 7FJ**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa10ATEX0066X/8** 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. **6228**

Project File No. **19/0264**

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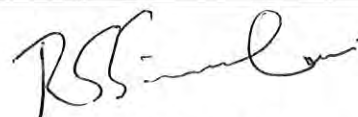
**SGS Baseefa Limited**

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e-mail [baseefa@sgs.com](mailto:baseefa@sgs.com) web site [www.sgs.co.uk/sgsbaseefa](http://www.sgs.co.uk/sgsbaseefa)

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

13

## Schedule

14

Certificate Number Baseefa10ATEX0066X/8

### 15 Description of the variation to the Product

#### Variation 8.1

To allow the TX optics piston to be manufactured as an option from stainless steel 316L

#### Variation 8.2

To allow for an alternative dimension and tolerance of the TX optics piston.

### 16 Report Number

SGS Baseefa report No GB/BAS/ExTR19.0121/00

### 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
*01-02-1851-X	1	4	07/05/19	Cert drawing TX Optics piston Baseefa

These drawings are common to and with IECEx BAS 13.0015X



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 **Baseefa10ATEX0066X/7**  
Examination Certificate 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: **ELDS Open Path Gas Detector System**

5 Manufacturer: **Senscient Limited**

6 Address: **Unit F1, Arena Business Centre, Holy Rood Close, Poole  
Dorset, BH17 7FJ**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa 10ATEX0066X** 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 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."

12 The marking of the equipment has changed from the original Certificate and shall include the following:

⊕ II 2 GD Ex db IIC T5 Gb  
Ex tb IIC T100°C Db IP66/67  
Tamb -40°C to +60°C

SGS Baseefa Customer Reference No. **6228**

Project File No. **17/0382**

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Registered in England No. 4305578.

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R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

M POWNEY  
Certification  
Manager

13

## Schedule

14

Certificate Number Baseefa10ATEX0066X/7

15 Description of the variation to the Product

### Variation 7.1

To allow the ELDS open path gas detector system, which is currently certified for gas group IIB+H<sub>2</sub> to be certified for the Gas group IIC.

### Variation 7.2

To assess the ELDS open path gas detector system against the standard EN IEC 60079-0:2018.

16 Report Number

SGS Baseefa test report GB/BAS/ExTR18.0117/00.

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
01-02-1792-X	1	5	08/03/19	Baseefa ATEX & IECEx Tx cert label
01-03-1793-X	1	5	08/03/19	Baseefa ATEX & IECEx Rx cert label

These drawings are common to, and are held with, IECEx BAS 13.0015X



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 **Baseefa10ATEX0066X/6**  
Examination Certificate 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: **ELDS Open Path Gas Detector System**

5 Manufacturer: **Senscient Limited**

6 Address: **Unit F1, Arena Business Centre, Holy Rood Close,  
Poole, Dorset, BH17 7FJ**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa10ATEX0066X** 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. **6228**

Project File No. **17/0572**

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R S SINCLAIR  
TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa10ATEX0066X/6**

15 **Description of the variation to the Product**

**Variation 6.1**

To allow an optional glass material for manufacture of both the Transmitter (Tx) and Receiver (Rx) lenses of the Open Path Gas Detector System, and to remove the requirement for routine pressure testing when fitted with this material.

16 **Report Number**

GB/BAS/ExTR17.0324/00

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
01-03-1782-X	1	6	02/11/17	Cert drawing Baseefa RX Lens
01-02-1783-X	1	8	02/11/17	Cert drawing Baseefa TX Lens
01-02-1796-X	1	8	02/11/17	Cert Drawing Baseefa Transmitter GA
01-03-1798-X	1	7	02/11/17	Cert Drawing ELDS Receiver GA for Baseefa



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 **Baseefa10ATEX0066X/5**  
Examination Certificate 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: **ELDS Open Path Gas Detector System**

5 Manufacturer: **Senscient Limited**

6 Address: **Unit F1, Arena Business Centre, Holy Rood Close,  
Poole, Dorset, BH17 7FJ**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa10ATEX0066X** 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      EN60079-1: 2014      EN60079-31: 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:

⊕ II 2 GD Ex db IIB + H2 T5 Gb  
Ex tb IIIC T100°C Db IP66/67  
Tamb -40°C TO +60°C

SGS Baseefa Customer Reference No. **6228**

Project File No. **15/0613**

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TECHNICAL MANAGER  
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa10ATEX0066X/5**

15 **Description of the variation to the Product**

**Variation 5.1**

A variation to allow an optional glass material of manufacture for both the Transmitter (Tx) and Receiver (Rx) lenses of the Open Path Gas Detector System.

**Variation 5.2**

A review of the documentation against the requirements of EN 60079-1:2014 in respect of the differences from EN 60079-1:2007.

**Variation 5.3**

Removal of the optional aluminium alloy from material of manufacture.

**Variation 5.4**

A change to the working voltage of the equipment to 18 - 32v d.c

16 **Report Number**

GB/BAS/ExTR15.0246/00

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
1.4.1	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**

Number	Sheet	Issue	Date	Description
01-03-1782-X	1	5	26/05/16	Cert drawing Baseefa RX Lens
01-02-1783-X	1	7	26/05/16	Cert drawing Baseefa TX Lens
01-02-1792-X	1	4	31/05/16	ATEX & IECEx TX Cert Label
01-03-1793-X	1	4	31/05/16	ATEX & IECEx RX Cert Label
01-02-1796-X	1	7	06/09/16	Cert Drawing Baseefa Transmitter GA
01-03-1798-X	1	6	06/09/16	Cert Drawing ELDS Receiver GA for Baseefa
01-03-1779-X	1	5	06/09/16	Cert Drawing RX Body Baseefa
01-02-1781-X	1	5	06/09/16	Cert Drawing TX Body Baseefa



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Number	Sheet	Issue	Date	Description
01-01-1789-X	1	5	06/09/16	Cert Drawing Baseefa Window Holder
01-01-1790-X	1	5	06/09/16	Cert Drawing Baseefa Rear Cover RX and TX
01-01-1854-X	1	4	06/09/16	Cert Drawing Baseefa Cross Duct Window Holder

The above drawings are common to IECEx BAS13.0015X and Baseefa 10ATEX0066X and are held with the former

**Current drawings**

Number	Sheet	Issue	Date	Description
01-03-1780-X	1	3	12/04/13	Cert Drawing RX Optics Piston Baseefa
01-02-1784-X	1	4	12/04/13	Cert Drawing TX Divider Baseefa
01-01-1785-X	1	3	12/04/13	Cert Drawing TX and RX Mounting Bars Baseefa
01-01-1787-X	1	3	12/04/13	External Grounding Assy cert drawing Baseefa TX/RX
01-01-1788-X	1	4	17/06/10	Cert drawing Baseefa Lens Retaining Ring TX And RX
01-02-1851-X	1	1	12/04/13	Cert Drawing TX Optics Piston Baseefa
01-02-1852-X	1	2	01/04/10	Cert Drawing TX Cylinder + Motor Assy Baseefa
01-01-1853-X	2	2	12/04/13	Cert Drawing Baseefa ELDS OPDG Cross Duct GA
01-01-1855-X	1	1	11/05/10	Cert Drawing Baseefa Cross Duct Adaptor Ring
01-01-2013-X	1	1	31/01/11	Cross Duct Adaptor Ring With Gassing Cell Facility Baseefa
01-01-2014-X	1	1	31/01/11	Cross Duct Adaptor Ring With Ductenna Facility Baseefa cert

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: **Baseefa10ATEX0066X/4**

4 Equipment or Protective System: **ELDS Open Path Gas Detector System**

5 Manufacturer: **Senscient Limited**

6 Address: **Unit F1, Arena Business Centre, Holy Rood Close, Poole,  
Dorset, BH17 7FJ**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa10ATEX0066X** 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: 2007**

**EN 60079-31: 2014**

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

This supplementary certificate shall be held with the original certificate.

Baseefa Customer Reference No. **6228**

Project File No. **14/0680**

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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited



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### Schedule

14

Certificate Number Baseefa10ATEX0066X/4

15

#### Description of the variation to the Equipment or Protective System

##### Variation 4.1

To update the certification to the latest version of the standard EN 60079-31.

16

#### Report Number

Baseefa Certification Report GB/BAS/ExTR14.0246/00.

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

None.

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: **Baseefa10ATEX0066X/3**

4 Equipment or Protective System: **ELDS Open Path Gas Detector System**

5 Manufacturer: **Senscient Limited**

6 Address: **Unit F1, Arena Business Centre, Holy Rood Close, Poole, Dorset,  
BH17 7FJ**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa10ATEX0066X 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:

**EN60079-0: 2012 EN60079-1:2007 EN60079-31: 2009**

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

9 The marking of the equipment has changed from the original Certificate and shall include the following:

**Ex II 2 GD Exd IIB + H2 T5 Tamb -40°C to +60°C Gb and Ex tb IIC T100°C Tamb -40°C to +60°C Db  
IP66/67**

This certificate shall be held with the original certificate.

Baseefa Customer Reference No. **6228**

Project File No. **12/0286 and 12/0984**

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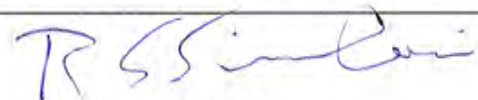
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**R S SINCLAIR  
GENERAL MANAGER**

On behalf of SGS Baseefa Limited



13

## Schedule

14

Certificate Number Baseefa10ATEX0066X/3

15

### Description of the variation to the Equipment or Protective System

#### Variation 3.1

Amendment to the alternative supplier specification for the optical glass lens of the Transmitter Unit.

#### Variation 3.2

Amendment to the dimensions of the optical glass lens of the Transmitter Unit.

#### Variation 3.3

Minor amendments to various drawings, having no effect on the certification of the units.

#### Variation 3.4

Review against the requirements of EN 60079-0: 2012 and EN 60079-31: 2009 in respect of the differences from EN 60079-0: 2006 and EN 61241-0: 2006 and EN 61241-1: 2004 respectively.

16

### Report Number

12(C)0286

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
01-02-1796-X	6	12/04/13	Cert Drawing Transmitter GA
01-03-1798-X	5	12/04/13	Cert Drawing Receiver GA
01-02-1792-X	3	29/01/13	Certification Label Transmitter
01-02-1793-X	3	29/01/13	Certification Label Receiver
01-02-1852-X*	1	01/04/10	TX Cylinder + Motor Assembly
01-02-1783-X	6	12/04/13	Lens, Transmitter
01-03-1782-X	4	12/04/13	Lens Receiver
01-01-1788-X*	3	17/06/10	Cert Drawing Lens Retaining Ring TX/RX
01-01-1789-X	4	12/04/13	Cert Drawing Window Holder
01-01-1854-X*	3	17/06/10	Cert Drawing Cross Duct Window Holder
01-01-1790-X	4	12/04/13	Cert Drawing Rear Cover RX and TX
01-03-1779-X	4	05/08/13	Cert Drawing RX Body
01-02-1781-X	4	12/04/13	Cert Drawing TX Body
01-02-1851-X	3	12/04/13	Cert Drawing TX Optics Piston
01-01-1780-X	3	12/04/13	RX Optics Piston
01-01-1787-X	3	12/04/13	External Grounding Assembly TX/RX
01-02-1784-X	3	12/04/13	Cert Drawing TX Divider

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Number	Issue	Date	Description
01-01-1785-X (2 sheets)	4	12/04/13	Cert Drawing TX and RX Mounting Bars
01-01-1853-X	2	12/04/13	Cert Drawing ELDS OPDG Cross Duct GA
01-01-1855-X*	1	11/05/10	Cert Drawing Cross Duct Adaptor Ring
01-01-2013-X*	1	31/01/11	Cross Duct Adaptor Ring With Gassing Cell Facility
01-01-2014-X*	1	31/01/11	Cross Duct Adaptor Ring With Ductenna Facility

The above drawings are common to IECEx BAS13.0015X and Baseefa10ATEX0066X and held with the former

The above drawings marked \* have been included in previous variations of Baseefa10ATEX0066X and are unchanged but are listed here for clarity.





**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: Baseefa10ATEX0066X/2**

**4 Equipment or Protective System: ELDS Open Path Gas Detector System**

**5 Manufacturer: Senscient Ltd**

**6 Address: Unit A2, Arena Business Centre, Holy Rood Close,  
Poole, Dorset, BH17 7FJ**

**7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa10ATEX0066X 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.

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

Baseefa Customer Reference No. **6228**

Project File No. **11/0287**

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.

**Baseefa**

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

A handwritten signature in blue ink, appearing to read "R S Sinclair".

**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa



13

### Schedule

14

Certificate Number Baseefa10ATEX0066X/2

15 **Description of the variation to the Equipment or Protective System**

**Variation 2.1**

Addition of an alternative supplier specification for the optical glass lens of the transmitter unit.

16 **Report Number**

Baseefa Certification Report 11(C)0287

17 **Special Conditions for Safe 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
01-02-1796-X	5	11/08/11	General Arrangement, Transmitter
01-02-1783-X	4	11/08/11	Lens, Transmitter





**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: **Baseefa10ATEX0066X/1**
- 4 Equipment or Protective System: **ELDS Open Path Gas Detector System**
- 5 Manufacturer: **Senscient Ltd**
- 6 Address: **Unit A2, Arena Business Centre, Holy Rood Close,  
Poole, Dorset BH17 7FJ**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa10ATEX0066X** 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.

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



Baseefa Customer Reference No. **6228**

Project File No. **11/0107**

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PP R S SINCLAIR   
DIRECTOR  
On behalf of  
Baseefa



13

## Schedule

14

Certificate Number Baseefa10ATEX0066X/1

### 15 Description of the variation to the Equipment or Protective System

#### Variation 1.1

Addition of a radio frequency interrogation system (Bluetooth).

#### Variation 1.2

Introduction of a duct mounting adaptor ring incorporating a radio frequency antenna (a.k.a. 'Ductenna').

#### Variation 1.3

Introduction of a duct mounting adaptor ring incorporating a slot to facilitate the use of sample gas cells for calibration.

### 16 Report Number

Baseefa Certification Report 11(C)0107

### 17 Special Conditions for Safe 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
01-02-1796-X	4	07/02/11	General Arrangement, Transmitter
01-03-1798-X	4	07/02/11	General Arrangement, Receiver
01-01-2013-X	1	31/01/11	Adaptor Ring, Duct Mounting c/w Gas Cell Facility
01-01-2014-X	1	31/01/11	Adaptor Ring, Duct Mounting c/w Ductenna





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: **Baseefa10ATEX0066X**

4 Equipment or Protective System: **ELDS Open Path Gas Detector System**

5 Manufacturer: **Senscient Ltd**

6 Address: **Unit A2, Arena Business Centre, Holy Rood Close, Poole,  
Dorest, BH 17 7FJ**

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. **09(C)0810**

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

**EN 60079-0: 2006                      EN60079-1: 2007                      EN61241-0: 2006                      EN 61241-1:2004**

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 :

**⊕ II GD Exd IIB + H<sub>2</sub> T5 Ta -40°C to + 60°C Gb and Ex tD A21 IP66/67 T100°C Ta -40°C to + 60°C Db**

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

Baseefa Customer Reference No. **6228**

Project File No. **09/0810**

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**R S SINCLAIR**

**DIRECTOR  
On behalf of  
Baseefa**



13

## Schedule

14

Certificate Number Baseefa10ATEX0066X

### 15 Description of Equipment or Protective System

The ELDS Transmitter and Receiver Units are rated at 24V d.c. (labelled from 14V to 32V) with a maximum power dissipation of 12 watts for the Tx and 10W for Rx.

Both units comprise a cylindrical enclosure manufactured in stainless steel or aluminium alloy, with the transmitter unit being significantly longer than the receiver. The enclosure front cover includes a glass lens and is secured by 8 off M5 x 16 socket head cap screws of stainless steel grade A4-70. The rear of the unit is closed by a circular threaded cover.

The interior of the enclosures are effectively divided into two compartments, the largest of which houses an assembly of electronic, mechanical and optical devices to the form a transmitter or receiver unit dependant on the internal component configuration.

The transmitter unit contains an optical assembly, including a laser diode assembly, several control printed circuit boards (PCBs) and a small sealed sample of a calibration gas. A window heater is affixed to the internal window surface.

The receiver unit contains an optical receiver assembly, a window heater and several signal processing printed circuit boards (PCBs).

An anti-tamper bar is fitted to each enclosure with a socket head cap screw securing the rear cover. This bar is fitted with a mounting boss, mounting facilities may be provided in the front cover via an adaptor ring.

An internal earthing is provided adjacent to the supply terminals and external earth connection facilities are also provided.

The rear sections of the transmitter and receiver housings both incorporate connection facilities for the supply and signal cables and are provided with an M25 female thread in the side wall to accommodate a flameproof cable entry device, with or without the interposition of a flameproof thread adapter.

The cable entry devices 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) under an EC-Type Examination Certificate to Directive 94/9/EC.

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure

### 16 Report Number

Baseefa Certification Report 09(C)0810

### 17 Special Conditions for Safe Use

1. The Transmitter and Receiver units are to be mounted horizontally and protected from impact.
2. Other than the rear cover providing access to the terminals for connection purposes this unit is not intended to be opened in service and is to be returned to the manufacturer for service or repair.
3. The window holder fasteners are stainless steel grade A4-70.

### 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**

<b>Number</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
01-02-1796-X	3	17/06/10	General Arrangement, Transmitter
01-03-1798-X	3	17/06/10	General Arrangement, Receiver
01-02-1792-X	2	14/06/10	Certification Label, Transmitter
01-03-1793-X	2	14/06/10	Certification Label, Receiver
01-02-1852-X	1	01/04/10	Cylinder Assembly, Transmitter
01-02-1783-X	3	17/06/10	Lens, Transmitter
01-03-1782-X	3	17/06/10	Lens, Receiver
01-01-1788-X	3	17/06/10	Lens Retaining Ring
01-01-1789-X	3	17/06/10	Front Cover, Window Holder
01-01-1854-X	3	17/06/10	Front Cover, Window Holder, Duct Mount
01-01-1790-X	3	17/06/10	Rear Cover
01-03-1779-X	3	17/06/10	Body Casing, Receiver
01-02-1781-X	3	17/06/10	Body Casing, Transmitter
01-02-1851-X	2	11/05/10	Optics mount, Transmitter
01-03-1780-X	2	11/05/10	Optics mount, Receiver
01-01-1787-X	2	17/06/10	Earth Connection Assembly
01-02-1784-X	2	11/05/10	Terminal PCB, Transmitter
01-01-1785-X	3	17/06/10	Mounting/Cover Locking Bar
01-01-1791-X	3	17/06/10	System Assembly Drawing
01-01-1853-X Sheets 1 & 2	1	01/04/10	General Arrangement, Duct Mounting
01-01-1855-X	2	11/05/10	Adaptor Ring, Duct Mounting