



# 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](http://www.iecex.com)

Certificate No.:	<b>IECEx BAS 11.0066X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 4	Issue 3 (2019-12-05)
Date of Issue:	2023-05-05		Issue 2 (2017-11-21)
			Issue 1 (2016-03-09)
			Issue 0 (2013-01-29)
Applicant:	<b>Metrix Instrument Co.</b> 8824 Fallbrook Houston Texas 77064 <b>United States of America</b>		
Equipment:	<b>Series 10,000 Probe</b>		
Optional accessory:			
Type of Protection:	<b>Type n, Type ec</b>		
Marking:	<b>Ex ec IIC T3 Gc or Ex nA IIC T3 Gc (-40°C ≤ Ta ≤ +177°C)</b> <b>Ex ec IIC T3 Gc or Ex nA IIC T4 Gc (-40°C ≤ Ta ≤ +110°C)</b>		

Approved for issue on behalf of the IECEx  
Certification Body:

**R. S. Sinclair**

Position:

**Technical Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

5/5/2023

METRIX DOC NO: 1172602  
REV: D



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Certificate issued by:

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



# IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 11.0066X**

Page 2 of 4

Date of issue: 2023-05-05

Issue No: 4

Manufacturer: **Metrix Instrument Co.**  
8824 Fallbrook  
Houston  
Texas 77064  
**United States of America**

Manufacturing  
locations: **Metrix Instrument Co.**  
8824 Fallbrook  
Houston  
Texas 77064  
**United States of America**

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 60079-15:2010](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:4

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/ExTR11.0237/00](#)  
[GB/BAS/ExTR19.0243/00](#)

[GB/BAS/ExTR16.0083/00](#)  
[GB/BAS/ExTR21.0121/00](#)

[GB/BAS/ExTR17.0350/00](#)

### Quality Assessment Report:

[GB/BAS/QAR10.0017/08](#)



# IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 11.0066X**

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Date of issue: 2023-05-05

Issue No: 4

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Series 10,000 Probe consists of a coil wound on to a plastic or ceramic mandrill and inserted into one end of an externally threaded, stainless steel cylindrical body. The coil varies in diameter from 5mm to 10mm depending on the version.

An integral coaxial or triaxial cable is connected to the coil, through the opposite end of the cylindrical body, and is terminated with a connector for mating with the Probe Driver.

An extension cable may be fitted between the Probe and the Probe Driver. The maximum length of the integral cable and extension cable is 10m and the cables may be provided with armoured protection.

Additionally, the Series 10,000 Probe may be combined with the following accessories:

5494LP Low Pressure Feed Through  
5495-XXX Forward mount Probe Holder  
5497DTPH Dual Thrust Probe Holder (2x Series 10,000 Probes)  
5497PM Probe Mounting System (1x Series 10,000 Probe)  
5498JB [Conduit Body] Junction Box

## Input parameters

Max rated input: 28V

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The Series 10,000 Probe must be located in an area of not more than pollution degree 2, as defined in IEC 60664-1. Additionally, the connector must be afforded a degree of ingress protection of at least IP54 in accordance with IEC 60529 when installed.
2. Provision must be made, external to the Series 10,000 Probe, to ensure that the rated input is not exceeded by more than 40%.



# IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 11.0066X**

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Date of issue: 2023-05-05

Issue No: 4

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

### Variation 4.1

To permit the introduction of a number of accessories, now included in the description, minor drawing changes.

### Variation 4.2

To confirm that the equipment has been assessed against the requirements of IEC 60079-0:2017. Additionally, to correct issues in the previous ExTR.

### Variation 4.3

To confirm that the equipment has been assessed against the requirements of IEC 60079-7 for Ex ec equipment in respect of the differences from EN 60079-15 for Ex nA equipment. The equipment is now coded Ex ec IIC T3/T4 Gc and retains Ex nA IIC T3/T4 Gc as optional marking.

ExTR: **GB/BAS/ExTR21.0121/00**

File Reference: **19/0328**



**The following pages are the prior revisions of this certificate.**



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx BAS 11.0066X

Issue No: 2 Certificate history:

Status: **Current**

Issue No. 2 (2017-11-21)

Date of Issue: **2017-11-21**

Issue No. 1 (2016-03-09)

Issue No. 0 (2013-01-29)

Applicant: **Metrix Instrument Co.**  
8824 Fallbrook  
Houston  
Texas 77064  
**United States of America**

Equipment: **Series 10,000 Probe**

Optional accessory:

Type of Protection: **Type n**

Marking:  
**Ex nA IIC T3 Gc (-40°C ≤ Ta ≤ +177°C)**  
**Ex nA IIC T4 Gc (-40°C ≤ Ta ≤ +110°C)**

Approved for issue on behalf of the IECEx  
Certification Body:

R. S. Sinclair

Position:

Technical Manager

Signature:  
(for printed version)

*R S Sinclair*  
22-11-17

Date:

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Certificate issued by:

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

**SGS**



METRIX DOC NO: 1172602  
REV: C



# IECEX Certificate of Conformity

Certificate No: IECEx BAS 11.0066X

Issue No: 2

Date of Issue: 2017-11-21

Page 2 of 4

Manufacturer: **Metrix Instrument Co.**  
8824 Fallbrook  
Houston  
Texas 77064  
**United States of America**

Additional Manufacturing location(s):

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 electrical apparatus 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 60079-15 : 2010** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:4

*This Certificate **does not** indicate compliance with electrical 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/ExTR11.0237/00](#)

[GB/BAS/ExTR16.0083/00](#)

[GB/BAS/ExTR17.0350/00](#)

### Quality Assessment Report:

[GB/BAS/QAR10.0017/05](#)

METRIX DOC NO: 1172602  
REV: C



# IECEx Certificate of Conformity

Certificate No: IECEx BAS 11.0066X

Issue No: 2

Date of Issue: 2017-11-21

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Series 10,000 Probe consists of a coil wound on to a plastic or ceramic mandrill and inserted into one end of an externally threaded, stainless steel cylindrical body. The coil varies in diameter from 5mm to 10mm depending on the version.

An integral coaxial or triaxial cable is connected to the coil, through the opposite end of the cylindrical body, and is terminated with a connector for mating with the Probe Driver.

An extension cable may be fitted between the Probe and the Probe Driver. The maximum length of the integral cable and extension cable is 10m and the cables may be provided with armoured protection.

### Input parameters

Max rated input: 28V

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The Series 10,000 Probe must be located in an area of not more than pollution degree 2, as defined in IEC 60664-1. Additionally, the connector must be afforded a degree of ingress protection of at least IP54 in accordance with IEC 60529 when installed.
2. Provision must be made, external to the Series 10,000 Probe, to ensure that the rated input is not exceeded by more than 40%.

METRIX DOC NO: 1172602  
REV: C





# IECEx Certificate of Conformity

Certificate No: IECEx BAS 11.0066X

Issue No: 2

Date of Issue: 2017-11-21

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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Variation 3.1

To permit minor mechanical changes (a ceramic mandrill).

ExTR: GB/BAS/ExTR17.0350/00

File Reference: 17/0388



**The following pages are the prior revisions of this certificate.**



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:

IECEx BAS 11.0066X

issue No.: 1

Certificate history:

Issue No. 1 (2016-3-9)

Issue No. 0 (2013-1-29)

Status:

Current

Date of Issue:

2016-03-09

Page 1 of 4

Applicant:

**Metrix Instrument Co.**  
8824 Fallbrook  
Houston  
Texas 77064  
United States of America

Electrical Apparatus:

**Series 10,000 Probe**

Optional accessory:

Type of Protection:

**Type n**

Marking:

**Ex nA IIC T3 Gc (-40°C ≤ Ta ≤ +177°C)**

**Ex nA IIC T4 Gc (-40°C ≤ Ta ≤ +110°C)**

Approved for issue on behalf of the IECEx  
Certification Body:

R. S. Sinclair

*pp DBREANLEY*

Position:

Technical Manager

Signature:

(for printed version)

*DBREANLEY*  
9/3/16

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 11.0066X

Date of Issue: 2016-03-09

Issue No.: 1

Page 2 of 4

Manufacturer: **Metrix Instrument Co.**  
8824 Fallbrook  
Houston  
Texas 77064  
**United States of America**

Additional Manufacturing location  
(s):

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 electrical apparatus 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 60079-15 : 2010** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition: 4

*This Certificate **does not** indicate compliance with electrical 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/ExTR11.0237/00](#)

[GB/BAS/ExTR16.0083/00](#)

### Quality Assessment Report:

[GB/BAS/QAR10.0017/04](#)



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0066X

Date of Issue: 2016-03-09

Issue No.: 1

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Series 10,000 Probe consists of a coil wound on to a plastic mandrill and inserted into one end of an externally threaded, stainless steel cylindrical body. The coil varies in diameter from 5mm to 10mm depending on the version.

An integral coaxial or triaxial cable is connected to the coil, through the opposite end of the cylindrical body, and is terminated with a connector for mating with the Probe Driver.

An extension cable may be fitted between the Probe and the Probe Driver. The maximum length of the integral cable and extension cable is 10m and the cables may be provided with armoured protection.

### Input parameters

Max rated input: 28V

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. The Series 10,000 Probe must be located in an area of not more than pollution degree 2, as defined in IEC 60664-1. Additionally, the connector must be afforded a degree of ingress protection of at least IP54 in accordance with IEC 60529 when installed.

2. Provision must be made, external to the Series 10,000 Probe, to ensure that the rated input is not exceeded by more than 40%.



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0066X

Date of Issue: 2016-03-09

Issue No.: 1

Page 4 of 4

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Variation 1.1

To permit the addition of a triaxial cable option; the equipment description has been amended to reflect this option.

### Variation 1.2

Specific condition of use #1 has been amended to reference pollution degree 2 / IEC 60664-1. Specific condition of use #2 has been included to correct the earlier omission.

### Variation 1.3

To permit the introduction of a temperature class T4 variant.  
The equipment is now marked:

Ex nA IIC T3 Gc  $(-40^{\circ}\text{C} \leq \text{Ta} \leq +177^{\circ}\text{C})$

Ex nA IIC T4 Gc  $(-40^{\circ}\text{C} \leq \text{Ta} \leq +110^{\circ}\text{C})$

ExTR: GB/BAS/ExTR16.0083/00

File Reference: 16/0142



**The following pages are the prior revisions of this certificate.**



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: IECEx BAS 11.0066X issue No.: 0 Certificate history:

Status: Current

Date of Issue: 2013-01-29 Page 1 of 3

Applicant: **Metrix Instrument Co.**  
8824 Fallbrook  
Houston  
Texas 77064  
United States of America

Electrical Apparatus: **Series 10,000 Probe**  
Optional accessory:


Type of Protection: **Type n**

Marking: **Ex nA IIC T3 Gc**  
**-40°C ≤ Ta ≤ +177°C**

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

Position: General Manager

Signature:  
(for printed version)

 pp Alan O'CONNOR  
29/1/13.

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 11.0066X

Date of Issue: 2013-01-29

Issue No.: 0

Page 2 of 3

Manufacturer: **Metrix Instrument Co.**  
8824 Fallbrook  
Houston  
Texas 77064  
**United States of America**

Additional Manufacturing location  
(s):

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Edition: 6.0

**IEC 60079-15 : 2010** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition: 4

*This Certificate **does not** indicate compliance with electrical 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/ExTR11.0237/00

Quality Assessment Report:

GB/BAS/QAR10.0017/01



# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0066X

Date of Issue: 2013-01-29

Issue No.: 0

Page 3 of 3

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Series 10,000 Probe consists of a coil wound on to a plastic mandrill and inserted into one end of an externally threaded, stainless steel cylindrical body. The coil varies in diameter from 5mm to 10mm depending on the version and any version has a maximum inductance of 150 $\mu$ H.

An integral coaxial cable is connected to the coil, through the opposite end of the cylindrical body, and is terminated with a coaxial connector for mating with the Probe Driver.

An extension cable may be fitted between the Probe and the Probe Driver. The maximum length of the integral cable and extension cable is 9m and the cables may be provided with armoured protection.

### Input parameters

Max rated input: 28V

### CONDITIONS OF CERTIFICATION: YES as shown below:

The connector must be afforded a degree of ingress protection of at least IP54 in accordance with IEC 60529 when installed.