



# 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 11.0065

Issue No: 2

Certificate history:

Status: **Current**

Issue No. 2 (2017-11-21)

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

Page 1 of 4

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: **Intrinsic Safety**

Marking:

**Ex ia IIC T3 Ga (-40°C ≤ Ta ≤ +177°C)**

**Ex ia IIC T4 Ga (-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)

Date:

*R S Sinclair*  
22-11-17

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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



METRIX DOC NO: 1173819  
REV: C



# IECEx Certificate of Conformity

Certificate No: IECEx BAS 11.0065

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

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

Issue No: 2

Page 2 of 4

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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"

*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/ExTR16.0047/00](#)

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

Quality Assessment Report:

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

METRIX DOC NO: 1173819 REV: C
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# IECEx Certificate of Conformity

Certificate No: IECEx BAS 11.0065

Issue No: 2

Date of Issue: 2017-11-21

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## 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 Type 7402 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. The maximum capacitance and inductance of the probe and extension cable is 2000pF and 200µH.

### Input parameters

U<sub>i</sub> = 28V

I<sub>i</sub> = 138mA

L<sub>i</sub> = 200µH

C<sub>i</sub> = 2nF

**SPECIFIC CONDITIONS OF USE: NO**

METRIX DOC NO: 1173819  
REV: C



# IECEx Certificate of Conformity

Certificate No: IECEx BAS 11.0065

Issue No: 2

Date of Issue: 2017-11-21

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

### Variation 2.1

To permit minor mechanical changes (a ceramic mandrill) and an increase to the  $C_i$  value, now stated as  $C_i = 2nF$ .

ExTR: GB/BAS/ExTR17.0350/00

File Reference: 17/0388

METRIX DOC NO: 1173819  
REV: C



**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 11.0065

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:  
*Optional accessory:*

**Series 10,000 Probe**

Type of Protection:

**Intrinsic Safety**

Marking:

**Ex ia IIC T3 Ga (-40°C ≤ Ta ≤ +177°C)**  
**Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +110°C)**

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

R. S. Sinclair

*PP O'BRIEN*

*Position:*

Technical Manager

*Signature:  
(for printed version)*

*[Signature]*  
\_\_\_\_\_  
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 11.0065

Date of Issue: 2016-03-09

Issue No.: 1

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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 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition: 6.0

*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 11.0065

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 Type 7402 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. The maximum capacitance and inductance of the probe and extension cable is 1000pF and 200μH.

### Input parameters

U <sub>i</sub>	=	28V
I <sub>i</sub>	=	138mA
L <sub>i</sub>	=	200μH
C <sub>i</sub>	=	1nF

CONDITIONS OF CERTIFICATION: NO





# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0065

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

To permit the introduction of a temperature class T4 variant.

The equipment is now marked:

Ex ia IIC T3 Ga (-40°C ≤ Ta ≤ +177°C)

Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +110°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 11.0065 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: **Intrinsic Safety**

Marking: **Ex ia IIC T3 Ga**  
**-40°C ≤Ta ≤+177°C**

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

Position: Managing Director

Signature:  
(for printed version)

  
29/1/13.

Date:

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Certificate issued by:

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**Staden Lane**  
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**Derbyshire**  
**SK17 9RZ**  
**United Kingdom**





# IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0065

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

**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"  
Edition: 6.0

*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 11.0065

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 Type 7402 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

U <sub>i</sub>	=	28V
I <sub>i</sub>	=	138mA
L <sub>i</sub>	=	200 $\mu$ H
C <sub>i</sub>	=	1nF

### CONDITIONS OF CERTIFICATION: NO

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