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 11.0065X**

Page 1 of 4

Certificate history:
Issue 3 (2019-12-05)
Issue 2 (2017-11-21)
Issue 1 (2016-03-09)
Issue 0 (2013-01-29)

Status: **Current**

Issue No: 4

Date of Issue: 2023-05-05

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: (for printed version) 5/5/2023

METRIX DOC NO: 1173819
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 11.0065X**

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

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/ExTR11.0237/00
GB/BAS/ExTR16.0047/00
GB/BAS/ExTR17.0350/00
GB/BAS/ExTR19.0243/00
GB/BAS/ExTR21.0121/00

Quality Assessment Report:

GB/BAS/QAR10.0017/08

METRIX DOC NO: 1173819
REV: D

IECEx Certificate of Conformity

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.

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

Ui	=	28V
Ii	=	138mA
Li	=	200µH
Ci	=	2nF

SPECIFIC CONDITIONS OF USE: YES as shown below:
1. The optional 5497DTPH, 5497PM (E=1 Connection Head) or 5498JB accessory enclosures may be manufactured from aluminium. They must be protected from the risk of impact and/or friction when installed in a Zone 0 environment.

IECEx Certificate of Conformity

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.
Additionally, a specific condition of use relating to one of the accessories being aluminium has been introduced.

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.

ExTR: **GB/BAS/ExTR21.0121/00**	File reference: **19/0328**

METRIX DOC NO: 1173819
REV: D

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

Certificate No.: IECEx BAS 11.0065

Issue No: 2

Certificate history:
Issue No. 2 (2017-11-21)
Issue No. 1 (2016-03-09)
Issue No. 0 (2013-01-29)

Status: **Current**

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

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: 22-11-17

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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	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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 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

IECEx Certificate of Conformity

Certificate No: IECEx BAS 11.0065 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 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

Ui = 28V

Ii = 138mA

Li = 200µH

Ci = 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** Page 4 of 4

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

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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: **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 pp DBRADLEY

Position: Technical Manager

Signature:
(for printed version)

Date: 9/3/16

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Certificate issued by:

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Buxton
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United Kingdom

METRIX DOC NO: 1173819
REV: B

IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0065

Date of Issue: **2016-03-09** Issue No.: **1**

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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 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/ExTR16.0083/00

Quality Assessment Report:

GB/BAS/QAR10.0017/04

METRIX DOC NO: 1173819
REV: B

IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0065

Date of Issue: **2016-03-09** Issue No.: **1**

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

Ui	=	28V
Ii	=	138mA
Li	=	200µH
Ci	=	1nF

CONDITIONS OF CERTIFICATION: NO

IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0065

Date of Issue: **2016-03-09** Issue No.: **1**

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)

Date: 29 | 1 | 13.

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Certificate issued by:

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

Baseefa

METRIX DOC NO: 1173819
REV: A

IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0065

Date of Issue: **2013-01-29** Issue No.: **0**

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:
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IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 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

Quality Assessment Report:

GB/BAS/QAR10.0017/01

METRIX DOC NO: 1173819
REV: A

IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0065

Date of Issue: **2013-01-29** Issue No.: **0**

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 150µH.

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

Ui	=	28V
Ii	=	138mA
Li	=	200µH
Ci	=	1nF

CONDITIONS OF CERTIFICATION: NO

METRIX DOC NO: 1173819
REV: A