

INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification Scheme for Explosive Atmospheres**

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

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IECEx BAS 10.0021X

issue No.:2

Certificate history:

Status:

Current

Issue No. 2 (2015-9-7) Issue No. 1 (2011-4-14) Issue No. 0 (2010-8-5)

Date of Issue:

2015-09-07

Page 1 of 4

Applicant:

Metrix Instrument Co.

8824 Fallbrook Houston Texas 77064

United States of America

Electrical Apparatus: Optional accessory:

Model 5485C Velocity Transducer

Type of Protection:

Intrinsic Safety

Marking:

Ex ia IIC T* Ga

Temperature Class - see schedule

Approved for issue on behalf of the IECEx Certification Body:

R. S. Sinclair PD DISNEAUZLEY

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 the Official IECEx Website.

Certificate issued by:

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



METRIX Doc No: 1166042



Certificate No.:

IECEx BAS 10.0021X

Date of Issue:

2015-09-07

Issue No.: 2

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 60079-11: 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/ExTR10.0040/00

GB/BAS/ExTR11.0096/00

GB/BAS/ExTR15.0245/00

Quality Assessment Report:

GB/BAS/QAR10.0017/03

METRIX Doc No: 1166042



Certificate No.:

IECEx BAS 10.0021X

Date of Issue:

2015-09-07

Issue No.: 2

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Model 5485C Velocity Transducer is designed to measure vibrations and convert them into an output signal. It comprises a coil and magnet housed within a stainless steel enclosure. Electrical connections are made via a two-pole connector or integral cable.

Input parameters

Ui = 28V Ci = 0

li = 120mA Li = 0.88mH max

Pi = 625mW

CONDITIONS OF CERTIFICATION: YES as shown below:

- 1 The Temperature Classification and ambient temperature range of the Model 5485C can vary and may be as follows:
 - T6 -54°C ≤ Ta ≤ +45°C
 - T5 -54° C \leq Ta \leq +60 $^{\circ}$ C
 - T4 -54°C ≤ Ta ≤ +95°C
 - T3 -54°C ≤ Ta ≤ +160°C
 - T2 -54°C ≤ Ta ≤ +260°C
 - T1 -54°C ≤ Ta ≤ +375°C
- 2. When terminated, the flying leads of the integral cable must be afforded a degree of protection of at least IP20.

METRIX Doc No: 1166042



ExTR: GB/BAS/ExTR15.0245/00

IECEx Certificate of Conformity

File Reference: 15/0575

Certificate No.:

IECEx BAS 10.0021X

Date of Issue:

2015-09-07

Issue No.: 2

Page 4 of 4

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

Variation 2.1

To permit minor drawing changes and to confirm that the equipment meets the requirements of IEC 60079-0:2011 & IEC 60079-11:2011. The equipment already carries marking in accordance with these standards.

METRIX Doc No: 1166042







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IECEx BAS 10.0021X

issue No.:1

Certificate history:

Status:

Current

Issue No. 1 (2011-4-14) Issue No. 0 (2010-8-5)

Date of Issue:

2011-04-14

Page 1 of 4

Applicant:

Metrix Instrument Co.

8824 Fallbrook Houston Texas 77064

United States of America

Electrical Apparatus: Optional accessory:

Model 5485C Velocity Transducer

Type of Protection:

Intrinsic Safety

Marking:

Ex ia IIC T* Ga

Temperature Class - see schedule

Approved for issue on behalf of the IECEx

R. S. Sinclair

Certification Body:

Position:

Managing Director

Signature: (for printed version)

Date:

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Certificate issued by:

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



METRIX DOC No: 1166042

REV: B



Certificate No.:

IECEx BAS 10.0021X

Date of Issue:

2011-04-14

Issue No.: 1

Page 2 of 4

Manufacturer:

Metrix Instrument Co.

8824 Fallbrook Houston Texas 77064

United States of America

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: 2007-10

Explosive atmospheres - Part 0:Equipment - General requirements

Edition: 5

IEC 60079-11: 2006

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 5

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/ExTR10.0040/00 GB/BAS/ExTR11.0096/00

Quality Assessment Report:

GB/BAS/QAR10.0017/00

METRIX DOC No: 1166042

REV: B



Certificate No.:

IECEx BAS 10.0021X

Date of Issue:

2011-04-14

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Model 5485C Velocity Transducer is designed to measure vibrations and convert them into an output signal. It comprises a coil and magnet housed within a stainless steel enclosure. Electrical connections are made via a two-pole connector or integral cable.

Input parameters

CONDITIONS OF CERTIFICATION: YES as shown below:

The Temperature Classification and ambient temperature range of the Model 5485C can vary and may be as follows:

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T4 -54°C ≤ Ta ≤ +95°C

T3 -54°C ≤ Ta ≤ +160°C

T2 -54°C ≤ Ta ≤ +260°C

T1 $-54^{\circ}C \le Ta \le +375^{\circ}C$

METRIX DOC No: 1166042

REV: B



Certificate No.:

IECEx BAS 10.0021X

Date of Issue:

2011-04-14

Issue No.: 1

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

Variation 1.1

To permit minor drawing changes that do not affect the original assessment.

EXTR: GB/BAS/ExTR11.0096/00 File Reference: 11/0273

METRIX DOC No: 1166042 REV: B



The following pages are the prior revisions of this certif	icate.



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IECEx BAS 10.0021X

issue No.:0

Certificate history:

Status:

Current

Date of Issue:

2010-08-05

Page 1 of 3

Applicant:

Metrix Instrument Co.

8824 Fallbrook Houston Texas 77064

United States of America

Electrical Apparatus: Optional accessory:

15.

Model 5485C Velocity Transducer

Type of Protection:

Intrinsic Safety

Marking:

Ex ia IIC T* Ga

Temperature Class - see schedule

Approved for issue on behalf of the IECEx

Certification Body:

Position:

Signature: (for printed version)

Date:

R. S. Sinclair

Managing Director

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Certificate issued by:

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



METRIX DOC No: 1166042 REV: A



Certificate No.:

IECEx BAS 10.0021X

Date of Issue:

2010-08-05

Issue No.: 0

Page 2 of 3

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Metrix Instrument Co.

8824 Fallbrook Houston

Texas 77064 United States of America

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Test Report:

GB/BAS/ExTR10.0040/00

Quality Assessment Report: GB/BAS/QAR10.0017/00

METRIX DOC No: 1166042 REV: A



Certificate No.:

IECEx BAS 10.0021X

Date of Issue:

2010-08-05

Issue No.: 0

Page 3 of 3

Schedule

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T4 -54°C ≤ Ta ≤ +95°C

T3 -54°C ≤ Ta ≤ +160°C

T2 -54°C ≤ Ta ≤ +260°C

T1 -54°C ≤ Ta ≤ +375°C

METRIX DOC No: 1166042

REV: A