



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 10.0020 issue No.: 4

Status: **Current**

Date of Issue: **2014-03-24** Page 1 of 4

Certificate history:
Issue No. 4 (2014-3-24)
Issue No. 3 (2014-1-27)
Issue No. 2 (2011-5-18)
Issue No. 1 (2011-1-12)
Issue No. 0 (2010-8-6)

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

Electrical Apparatus: **A Type 5550 Vibration Switch**
Optional accessory:

Type of Protection: **Flameproof and dust tight**

Marking: **Ex d IIB + H2 T6 Gb Ta -40°C to + 70°C**
Ex tb IIIC T85°C Db Ta -40°C to + 70°C IP66

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair *MBOWNEY*

Position: General Manager

Signature:
(for printed version)

MBOWNEY
24/3/14

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

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 10.0020

Date of Issue: 2014-03-24

Issue No.: 4

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 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

*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/ExTR10.0034/00](#)
[GB/BAS/ExTR13.0184/00](#)

[GB/BAS/ExTR10.0274/00](#)
[GB/BAS/ExTR14.0089/00](#)

[GB/BAS/ExTR11.0119/00](#)

Quality Assessment Report:

[GB/BAS/QAR10.0017/02](#)



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue: 2014-03-24

Issue No.: 4

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

A Type 5550 Vibration Switch comprises a rectangular enclosure and flat flanged cover, both manufactured from aluminium alloy.

The unit houses a trip switch, one or two microswitches and the option of a solenoid coil for remote re-setting of the trip switch. The cover which is attached by four grade A2-80 stainless steel fasteners, has two operating shafts for adjustment of the trip switch setting and manual re-setting of the trip switch.

The micro switches are each rated up to 480Va.c. 15A, and the coil when fitted is rated up to 230Va.c. 1A, or 24Vd.c. 3A.

An M20 or ¾" NPT cable entry hole is provided for the accommodation of a flameproof cable entry device, with or without the interposition of a flameproof thread adapter.

The cable entry device and thread adapters if used shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue: 2014-03-24

Issue No.: 4

Page 4 of 4

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

Variation 4.1

To confirm that cover fasteners of grade A2-70, A2-80 and A4-70, A4-80 are permitted.

ExTR: GB/BAS/ExTR14.0089/00

File Reference: 14/0150



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 10.0020 issue No.:3

Status: Current

Date of Issue: 2014-01-27 Page 1 of 4

Certificate history:

Issue No. 3 (2014-1-27)
Issue No. 2 (2011-5-18)
Issue No. 1 (2011-1-12)
Issue No. 0 (2010-8-6)

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

Electrical Apparatus: **A Type 5550 Vibration Switch**
Optional accessory:

Type of Protection: **Flameproof and dust tight**

Marking: **Ex d IIB + H2 T6 Gb Ta -40°C to + 70°C**
Ex tb IIIC T85°C Db Ta -40°C to + 70°C IP66

Approved for issue on behalf of the IECEx
Certification Body:

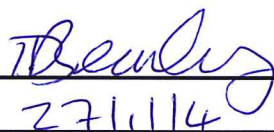
R S Sinclair

PP DBREARLEY

Position:

General Manager

Signature:
(for printed version)


27/1/14

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





IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue: 2014-01-27

Issue No.: 3

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:

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IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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/ExTR10.0034/00
GB/BAS/ExTR13.0184/00

GB/BAS/ExTR10.0274/00

GB/BAS/ExTR11.0119/00

Quality Assessment Report:

GB/BAS/QAR10.0017/02



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue: 2014-01-27

Issue No.: 3

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

A Type 5550 Vibration Switch comprises a rectangular enclosure and flat flanged cover, both manufactured from aluminium alloy.

The unit houses a trip switch, one or two microswitches and the option of a solenoid coil for remote re-setting of the trip switch. The cover which is attached by four grade A2-80 stainless steel fasteners, has two operating shafts for adjustment of the trip switch setting and manual re-setting of the trip switch.

The micro switches are each rated up to 480Va.c.15A, and the coil when fitted is rated up to 230Va.c. 1A, or 24Vd.c. 3A.

An M20 or ¾" NPT cable entry hole is provided for the accommodation of a flameproof cable entry device, with or without the interposition of a flameproof thread adapter.

The cable entry device and thread adapters if used shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue: 2014-01-27

Issue No.: 3

Page 4 of 4

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

Variation 3.1

To permit a modification to the position of the reset shaft position.

Variation 3.2

To assess the apparatus against the requirements of IEC60529 for IPx6.

Variation 3.3

To confirm that the equipment covered by this certificate has been reviewed against the requirements of IEC60079-0: 2011 Edition 6 and IEC60079-31: 2008 Edition 1 in respect of the differences from the standards to which this certificate was issued; none of these differences affect this equipment other than the product marking.

The product will now be marked as follows:-

Ex d IIB + H2 T6 Gb Ta -40°C to + 70°C

Ex tb IIIC T85°C Db Ta -40°C to + 70°C IP66

ExTR: GB/BAS/ExTR13.0184/00

File Reference: 13/0162



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 10.0020

issue No.:2

Status:

Current

Certificate history:

Issue No. 2 (2011-5-18)

Issue No. 1 (2011-1-12)

Issue No. 0 (2010-8-6)

Date of Issue:

2011-05-18

Page 1 of 4

Applicant:

Metrix Instrument Co.

8824 Fallbrook

Houston

Texas

77064

United States of America

Electrical Apparatus:

A Type 5550 Vibration Switch

Optional accessory:

Type of Protection:

Flameproof and dust tight

Marking:

Ex d IIB + H2 T6 Ta -40°C to + 70°C Gb

Ex tb IIC T85°C Ta -40°C to + 70°C Db IP65

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:
(for printed version)


19-5-11

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

Certificate issued by:

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





IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue: 2011-05-18

Issue No.: 2

Page 2 of 4

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

Manufacturing location(s):

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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 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6
- IEC 60079-31 : 2008** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition: 1

*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/ExTR10.0034/00](#)
[GB/BAS/ExTR10.0274/00](#)
[GB/BAS/ExTR11.0119/00](#)

Quality Assessment Report:

[GB/BAS/QAR10.0017/00](#)



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue: 2011-05-18

Issue No.: 2

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

A Type 5550 Vibration Switch comprises a rectangular enclosure and flat flanged cover, both manufactured from aluminium alloy.

The unit houses a trip switch, one or two microswitches and the option of a solenoid coil for remote re-setting of the trip switch. The cover which is attached by four grade A2-80 stainless steel fasteners, has two operating shafts for adjustment of the trip switch setting and manual re-setting of the trip switch.

The micro switches are each rated up to 480Va.c.15A, and the coil when fitted is rated up to 230Va.c. 1A, or 24Vd.c. 3A.

An M20 or ¾" NPT cable entry hole is provided for the accommodation of a flameproof cable entry device, with or without the interposition of a flameproof thread adapter.

The cable entry device and thread adapters if used shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue: 2011-05-18

Issue No.: 2

Page 4 of 4

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

Variation 2.1

Optional use of alternative fasteners in stainless steel grade A4-80, or stronger.

ExTR: **GB/BAS/ExTR11.0119/00**

File Reference: **11/0357**

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 10.0020 issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2011-1-12)
Issue No. 0 (2010-8-6)

Date of Issue: **2011-01-12** Page 1 of 4

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

Electrical Apparatus: **A Type 5550 Vibration Switch**
Optional accessory:

Type of Protection: **Flameproof and dust tight**

Marking: **Ex d IIB + H2 T6 Ta -40°C to + 70°C Gb**
Ex tb IIIC T85°C Ta -40°C to + 70°C Db IP65

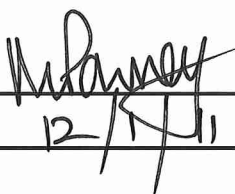
Approved for issue on behalf of the IECEx
Certification Body:

PP R S Sinclair M. POWNEY

Position: Managing Director

Signature:
(for printed version)

Date:


12/1/11

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Certificate issued by:

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





IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue: 2011-01-12

Issue No.: 1

Page 2 of 4

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

Manufacturing location(s):

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STANDARDS:

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IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

*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/ExTR10.0034/00
GB/BAS/ExTR10.0274/00

Quality Assessment Report:

GB/BAS/QAR10.0017/00



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue: 2011-01-12

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

A Type 5550 Vibration Switch comprises a rectangular enclosure and flat flanged cover, both manufactured from aluminium alloy.

The unit houses a trip switch, one or two microswitches and the option of a solenoid coil for remote re-setting of the trip switch. The cover which is attached by four grade A2-80 stainless steel fasteners, has two operating shafts for adjustment of the trip switch setting and manual re-setting of the trip switch.

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CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue: 2011-01-12

Issue No.: 1

Page 4 of 4

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

Variation 1.1

Changes to the internal thermistors.

ExTR: **GB/BAS/ExTR10.0274/00**

File Reference: **10/0889**



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 10.0020	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2010-08-06	Page 1 of 3	
Applicant:	Metrix Instrument Co. 8824 Fallbrook Houston Texas 77064 United States of America		
Electrical Apparatus:	A Type 5550 Vibration Switch		
Optional accessory:			
Type of Protection:	Flameproof and dust tight		
Marking:	Ex d IIB + H2 T6 Ta -40°C to + 70°C Gb Ex tb IIIC T85°C Ta -40°C to + 70°C Db IP65		
Approved for issue on behalf of the IECEx Certification Body:	R S Sinclair		
Position:	Managing Director		
Signature: (for printed version)			
Date:	<u>6-8-10</u>		

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Certificate issued by:

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





IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue: 2010-08-06

Issue No.: 0

Page 2 of 3

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:

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Test Report:

[GB/BAS/ExTR10.0034/00](#)

Quality Assessment Report:

[GB/BAS/QAR10.0017/00](#)



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0020

Date of Issue:

2010-08-06

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

A Type 5550 Vibration Switch comprises a rectangular enclosure and flat flanged cover, both manufactured from aluminium alloy.

The unit houses a trip switch, one or two microswitches and the option of a solenoid coil for remote re-setting of the trip switch. The cover which is attached by four grade A2-80 stainless steel fasteners, has two operating shafts for adjustment of the trip switch setting and manual re-setting of the trip switch.

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