



# 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.: **IECEx CML 25.0013X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2025-07-18

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

Equipment: **Vibration Switches 5550 and 5550G**

Optional accessory:

Type of Protection: **Flameproof Ex "db" and Dust Ignition Ex "tb"**

Marking: Model 5550  
Ex db IIB+H<sub>2</sub> T6 Gb  
Ex tb IIIC T85°C Db  
IP64\*/IP66  
Ta = -53°C\* or -40°C to +70°C  
\*IP64 when lower ambient is -53°C  
Model 5550G  
Ex db IIC T6 Gb  
Ex tb IIIC T85°C Db  
IP66  
Ta = -40°C to +70°C

Approved for issue on behalf of the IECEx  
Certification Body:

**L A Brisk**

Position:

**Assistant Certification Manager**

Signature:  
(for printed version)

18 Jul 2025

Date:  
(for printed version)

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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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Eurofins E&E CML Limited**  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port, CH65 4LZ  
**United Kingdom**



METRIX DOC NO: 1187253  
REV: E



# IECEx Certificate of Conformity

Certificate No.: **IECEx CML 25.0013X**

Page 2 of 3

Date of issue: 2025-07-18

Issue No: 0

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 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

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 Report:

[GB/CML/ExTR25.0042/00](#)

Quality Assessment Report:

[GB/BAS/QAR10.0017/09](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX CML 25.0013X**

Page 3 of 3

Date of issue: 2025-07-18

Issue No: 0

**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.

**See Annex for full description and Conditions of Manufacture.**

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

**See Annex for Specific Conditions of Use.**

**Annex:**

[IECEX CML 25.0013X Iss. 0 Certificate Annex.pdf](#)

**Annexe to:** IECEx CML 25.0013X Issue 0  
**Apparatus:** Vibration Switches 5550 and 5550G  
**Applicant:** Metrix Instrument Co.



## Description

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 480 Va.c. 15A, and the coil when fitted is rated up to 230 Va.c. 1 A, or 24 Vd.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.

A Type 5550G Vibration Switch comprises a rectangular enclosure and threaded cover to IECEx UL 14.0071U. The base has provision for two cable entries, and houses a trip switch, one or two microswitches and the option of a solenoid coil for remote re-setting of the trip switch.

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

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with certified flameproof stopping plugs.

## Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

## Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. The equipment includes flameproof joints that have dimensions that differ from the requirements of IEC 60079-1:2014 Ed. 7 Table 3. As such, the flameproof joints are not intended to be repaired by anyone other than the manufacturer.
- ii. The cable temperature may be up to 85°C at the maximum ambient temperature. This shall be taken into consideration when selecting suitable cable for connection.



Certificate Annex IECEx  
Version: 10.0 Approval: Approved



**Eurofins E&E CML Limited**  
Newport Business Park, New Port Road  
Ellesmere Port, CH65 4LZ, UK



**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 10.0020

Issue No: 5

Certificate history:

Status: **Current**

Page 1 of 4

[Issue No. 5 \(2019-07-01\)](#)

[Issue No. 4 \(2014-03-24\)](#)

[Issue No. 3 \(2014-01-27\)](#)

[Issue No. 2 \(2011-05-18\)](#)

[Issue No. 1 \(2011-01-12\)](#)

[Issue No. 0 \(2010-08-06\)](#)

Date of Issue: **2019-07-01**

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

Equipment: **A Type 5550 Vibration Switch**

Optional accessory:

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

Marking:

**Ex d IIB + H2 T6 Gb Ta - \*C to + 70°C**  
**Ex tb III C T85°C Db Ta - \*C to + 70°C IP6\***  
**\*See variation 5.2**

Approved for issue on behalf of the IECEx  
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:  
(for printed version)

M POWNEY  
Certification  
Manager

Date:

*M Powney*  
*22/7/19*

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: 1187253  
REV: D



# IECEx Certificate of Conformity

Certificate No: IECEx BAS 10.0020 Issue No: 5  
Date of Issue: 2019-07-01 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 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 : 2017</b> Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition:2	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	GB/BAS/ExTR11.0119/00
GB/BAS/ExTR13.0184/00	GB/BAS/ExTR14.0089/00	GB/BAS/ExTR19.0137/00

### Quality Assessment Report:

GB/BAS/QAR10.0017/06

METRIX DOC NO: 1187253  
REV: D



# IECEx Certificate of Conformity

Certificate No: IECEx BAS 10.0020

Issue No: 5

Date of Issue: 2019-07-01

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).

**SPECIFIC CONDITIONS OF USE: NO**





# IECEx Certificate of Conformity

Certificate No: IECEx BAS 10.0020

Issue No: 5

Date of Issue: 2019-07-01

Page 4 of 4

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

### Variation 5.1

To confirm that the equipment covered by the referenced certificates has been reviewed against the requirements of IEC 60079-0:2017, IEC 60079-1:2014 and IEC 60079-31:2013 in respect to the differences from IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-31:2008.

### Variation 5.2

To permit the option of reducing the equipment's lower ambient temperature from -40°C to -53°C together with the reduction of the IP rating when this is the case.

When fitted with the Chloroprene U-cup material, the equipment's ambient temperature and IP ratings are as follows:

Ta = -53°C to +70°C and IP64 respectively.

Otherwise, Ta = -40°C to +70°C and IP66.

ExTR: GB/BAS/ExTR19/0137/00

File Reference: 19/0169



**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 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.
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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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> 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](http://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)

*TSearley*  
27/1/14

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 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:

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 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> 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](http://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.
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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):

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 60079-1 : 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](http://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:

*M. POWNEY*  
12/1/11

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: 2011-01-12

Issue No.: 1

Page 2 of 4

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

Manufacturing location(s):

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 : 2007-10</b> Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> 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.

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: 2011-01-12

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](http://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:	<b>Metrix Instrument Co.</b> 8824 Fallbrook Houston Texas 77064 United States of America		
Electrical Apparatus:	<b>A Type 5550 Vibration Switch</b>		
Optional accessory:			
Type of Protection:	<b>Flameproof and dust tight</b>		
Marking:	<b>Ex d IIB + H2 T6 Ta -40°C to + 70°C Gb</b> <b>Ex tb IIIC T85°C Ta -40°C to + 70°C Db IP65</b>		
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>		

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: 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:**

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 : 2007-10</b> Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> 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](#)

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.

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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**