



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 10.0095X** Page 1 of 4 **Certificate history:**
Issue 1 (2014-01-27)
Issue 0 (2010-09-06)

Status: **Current** Issue No: 2

Date of Issue: 2020-07-03

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

Equipment: **Type 5550G Vibration Switch**

Optional accessory:

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

Marking: **Ex db IIC T6 Gb (Ta -40°C to +70°C)**
Ex tb IIIC T85°C Db IP66

Approved for issue on behalf of the IECEx
Certification Body:

Mr R S Sinclair

Position:

Technical Manager

M POWNEY
Certification
Manager

Signature:
(for printed version)

Date:

7/7/2020

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 www.iecex.com or use of this QR Code.



Certificate issued by:

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



METRIX DOC NO: 1187247
REV: C



IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 10.0095X**

Page 2 of 4

Date of issue: 2020-07-03

Issue No: 2

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

Additional
manufacturing
locations:

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 60079-1:2014-06 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 Reports:

[GB/BAS/ExTR10.0201/00](#)

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

[GB/BAS/ExTR20.0098/00](#)

Quality Assessment Report:

[GB/BAS/QAR10.0017/06](#)

METRIX DOC NO: 1187247
REV: C



IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 10.0095X**

Page 3 of 4

Date of issue: 2020-07-03

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

A Type 5550 Vibration Switch comprises a rectangular enclosure and threaded cover to IECEx UL 08.0005U. 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 480Va.c.15A, and the coil when fitted is rated up to 230Va.c. 1A, or 24Vd.c. 3A.

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.

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

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Potential electrostatic charging hazard – see instructions.



IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 10.0095X**

Page 4 of 4

Date of issue: 2020-07-03

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 2.1

The equipment covered by this certificate has been reviewed against the additional design and test requirements of IEC 60079-0: 2017, IEC 60079-1: 2014 and IEC 60079-31:2013 and compliance is confirmed.

The equipment may be marked:

Ex db IIC T6 Gb (Ta -40°C to +70°C)

Ex tb IIIC T85°C Db IP66

Variation 2.2

To introduce the Specific Condition of Use number 1.

ExTR: **GB/BAS/ExTR20.0098/00**

File Reference: **20/0188**



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 10.0095** issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2014-1-27)
Issue No. 0 (2010-9-6)

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

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

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

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

Marking: **Ex d IIC 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:

RS R S Sinclair *M Downey*

Position: General Manager

Signature:
(for printed version)

M Downey

3/2/14

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 10.0095

Date of Issue: 2014-01-27

Issue No.: 1

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 60079-1 : 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/ExTR10.0201/00

GB/BAS/ExTR13.0184/00

Quality Assessment Report:

GB/BAS/QAR10.0017/02



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0095

Date of Issue: 2014-01-27

Issue No.: 1

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

A Type 5550 Vibration Switch comprises a rectangular enclosure and threaded cover to IECEx UL 08.0005U. 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 480Va.c.15A, and the coil when fitted is rated up to 230Va.c. 1A, or 24Vd.c. 3A.

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.

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

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0095

Date of Issue: 2014-01-27

Issue No.: 1

Page 4 of 4

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

Variation 1.1

To note a change of equipment name from 'Type 5550 Vibration Switch' to 'Type 5550G Vibration Switch'

Variation 1.2

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 IIC 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.: issue No.: Certificate history:

Status:

Date of Issue: **2010-09-06** 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 protected**

Marking: **Ex d IIC T6 (Ta -40°C to + 70°C) Gb**
Ex tD A20 IP66

Approved for issue on behalf of the IECEX Certification Body: **R S Sinclair**

Position: **Managing Director**

Signature:
(for printed version)



7-9-10

Date:

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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 10.0095

Date of Issue: 2010-09-06

Issue No.: 0

Page 2 of 3

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 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 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/ExTR10.0201/00](#)

Quality Assessment Report:

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



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 10.0095

Date of Issue: 2010-09-06

Issue No.: 0

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Schedule

EQUIPMENT:

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A Type 5550 Vibration Switch comprises a rectangular enclosure and threaded cover to IECEx UL 08.0005U. 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.

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

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.

CONDITIONS OF CERTIFICATION: NO