



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: 5

Certificate history:

Status: **Current**

Issue No. 5 (2019-07-01)

Issue No. 4 (2014-03-24)

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

Page 1 of 4

Issue No. 3 (2014-01-27)

Issue No. 2 (2011-05-18)

Applicant: **Metrix Instrument Co.**

8824 Fallbrook

Houston

Texas

77064

United States of America

Issue No. 1 (2011-01-12)

Issue No. 0 (2010-08-06)

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

R S Sinclair

Certification Body:

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

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:

- | | |
|---|--|
| IEC 60079-0 : 2017
Edition:7.0 | Explosive atmospheres - Part 0: Equipment - General requirements |
| IEC 60079-1 : 2014-06
Edition:7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| IEC 60079-31 : 2013
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



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

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 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

METRIX DOC NO: 1187253
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 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)

W. Payne

Date:

24/3/14

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 3/4" 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

Position:

General Manager

Signature:
(for printed version)

Date:

27/1/14

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:

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/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 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)


19-5-11

Date:

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Certificate issued by:

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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

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)

M POWNEY

12/1/11

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 10.0020

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:

- 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](#)

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

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)



6-8-10

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 10.0020

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:

- | | |
|--|--|
| 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](#)

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.

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 3/4" 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