

EU Type Examination Certificate CML 25ATEX1043X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Vibration Switches 5550 and 5550G**
- 3 Manufacturer **Metrix Instrument Co.**
- 4 Address **8824 Fallbrook,
Houston,
Texas,
77064
United States of America**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

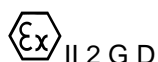
EN 60079-1:2014

EN 60079-31:2014

- 10 The equipment shall be marked with the following:

Model 5550

Model 5550G



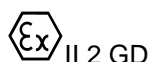
Ex db IIB+H₂ T6 Gb

Ex tb IIIC T85°C Db

IP64*/IP66

Ta= -53°C* or -40°C to +70°C

*IP64 when lower ambient is -53°C



Ex db IIC T6 Gb

Ex tb IIIC T85°C Db

IP66

11 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 DEMKO 01ATEX015742U. 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.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	18 Jul 2025	R18574A/00 (MT135370)	Issue of Prime Certificate

Note: Drawings that describe the equipment or component are listed in the Annex.

13 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.

14 Specific Conditions of Use (Special Conditions)

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 EN 60079-1:2014 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

Certificate Number CML 25ATEX1043X
Equipment Vibration Switches 5550 and 5550G
Manufacturer Metrix Instrument Co.



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
9006-IECEX-AGENCY	1 to 13	E	18 Jul 2025	5550 Vibration Switch IECEX Certification Requirements
1065138-AGENCY	1 of 1	D	18 Jul 2025	Assembly/Marking DWG, 5550 IIC, Agency



The following pages are the prior revisions of this certificate.

SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Supplementary EU - Type Examination Certificate Number: **Baseefa10ATEX0098/5**

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

Product: **A Type 5550 Vibration Switch**

Manufacturer: **Metrix Instrument Company.**

Address: **8824 Fallbrook, Houston, Texas, 77064, United States of America.**

This supplementary certificate extends EC – Type Examination Certificate No. Baseefa10ATEX0098 to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

Item 9 of the original Certificate is replaced by "Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule."

The marking of the equipment has changed from the original Certificate and shall include the following:

Ex II 2GD Ex db IIB+H₂ T6 Gb Ta -°C to +70°C
Ex tb IIIC T85°C Db Ta -°C to +70°C IP6*

*see schedule.

SGS Baseefa Customer Reference No. 0708

Project File No. 19/0169

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Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN



R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

M POWNEY
Certification
Manager

13 **Schedule**

14 **Certificate Number Baseefa10ATEX0098/5**

15 **Description of the variation to the Product**

Variation 4.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN IEC 60079-0:2018, EN 60079-1:2014 and EN 60079-31:2014 in respect to the differences from EN 60079-0:2012, EN 60079-1:2007 and EN 60079-31:2009.

Variation 4.2

To permit the alternative 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.

16 **Report Number**

GB/BAS/ExTR19.0317/00

17 **Specific Conditions of Use**

None additional to those listed previously

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is affected as follows.

Clause	Subject	Compliance
1.2.7	LVD type requirements	Standards require manufacturer's declaration, supplied.
1.2.8	Overloading of equipment (protection relays, etc.)	Covered by installation rules and manufacturer's instructions. Electrical ratings have been included on the instructions provided.
1.3.2	Hazards arising from static electricity.	A special condition of use is included on the certificate of conformity regarding static hazards.
1.4.1	External effects	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions
1.4.2	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
9006-IECEX-Agency	1 to 13	D	-	5550 Vibration Switch IECEX Certification Requirements.



The following pages are the prior revisions of this certificate.

SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

**Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa10ATEX0098/4**
- 4 Equipment or Protective System: **A Type 5550 Vibration Switch**
- 5 Manufacturer: **Metrix Instrument Company**
- 6 Address: **8824 Fallbrook Drive, Houston, Texas 77064, USA**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa10ATEX0098** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

Baseefa Customer Reference No. **0708**

Project File No. **14/0150**

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PR S SINCLAIR
GENERAL MANAGER

On behalf of SGS Baseefa Limited

METRIX DOC NO: 1187250
REV: C

13 **Schedule**

14 **Certificate Number Baseefa10ATEX0098X/4**

15 **Description of the variation to the Equipment or Protective System**

Variation 4.1

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

16 **Report Number**

Baseefa Certification Report GB/BAS/ExTR14.0089/00

17 **Specific Conditions of Use**

None

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
9006-IECEX-AGENCY	1 to 12	B	-	5550 VIBRATION SWITCH IECEX CERTIFICATION REQUIREMENTS

The above drawing is common to Baseefa10ATEX0098/4 and IECEX BAS 10.0020/4 and is held with the latter.



The following pages are the prior revisions of this certificate.

SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

**Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa10ATEX0098/3**
- 4 Equipment or Protective System: **A Type 5550 Vibration Switch**
- 5 Manufacturer: **Metrix Instrument Company**
- 6 Address: **8824 Fallbrook Drive, Houston, Texas 77064, USA**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa10ATEX0098** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- 8 Item 9 of the original Certificate is replaced by “Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN60079-0: 2012 EN60079-1: 2007 EN60079-31: 2009**
- except in respect of those requirements listed at item 18 of the Schedule.”
- 9 The marking of the equipment has changed from the original Certificate and shall include the following:
- Ex II 2GD 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**

This certificate shall be held with the original certificate.

Baseefa Customer Reference No. **0708**

Project File No. **13/0162**

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R S SINCLAIR *PP DBREARLEY*
GENERAL MANAGER

On behalf of SGS Baseefa Limited

METRIX DOC NO: 1187250
REV: B

13

Schedule

14

Certificate Number Baseefa10ATEX0098/3

15 Description of the variation to the Equipment or Protective System

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 EN60529 for IPx6.

Variation 3.3

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN60079-0: 2012, EN60079-1: 2007 and EN60079-31: 2009 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 shown in point 9 above.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR13.0184/00

17 Specific Conditions of Use

None

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
9006-IECEX-AGENCY	1 to 12	A	-	5550 VIBRATION SWITCH IECEX CERTIFICATION REQUIREMENTS

The above drawing is common to Baseefa10ATEX0098/3 and IECEX BAS 10.0020 and is held with the latter.

Note:- Drawing number 9006-IECEX is no longer a certified drawing.



The following pages are the prior revisions of this certificate.



1 SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

**2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa10ATEX0098/2**

4 Equipment or Protective System: **A Type 5550 Vibration Switch**

5 Manufacturer: **Metrix Instrument Company**

6 Address: **8824 Fallbrook Drive, Houston, Texas 77064, USA**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa10ATEX0098** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0708**

Project File No. **11/0357**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number Baseefa10ATEX0098/2

15 Description of the variation to the Equipment or Protective System

Variation 2.1

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

16 Report Number

Baseefa Certification Report GB/BAS/ExTR11.0119/00

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Issue	Date	Description
9006-IECEX Sheets 1 to 12	C	-	G.A. Type 5550 Vibration Switch and Options.

Drawings are common to IECEx BAS 10.0020, and are held on that file.

The following pages are the prior revisions of this certificate.



SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

**Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa10ATEX0098/1**
- 4 Equipment or Protective System: **A Type 5550 Vibration Switch**
- 5 Manufacturer: **Metrix Instrument Company**
- 6 Address: **8824 Fallbrook Drive, Houston, Texas 77064, USA**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa10ATEX0098** to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

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Baseefa Customer Reference No. **0708**

Project File No. **10/0889**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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pp R S SINCLAIR 
DIRECTOR
On behalf of
Baseefa

METRIX DOC NO: 1187250
REV: A



13

Schedule

14

Certificate Number Baseefa10ATEX0098/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

Change of internal thermistors.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR10.0274/00

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Issue	Date	Description
9006-IECEX Sheets 1 to 12	B	-	G.A. Type 5550 Vibration Switch and Options.



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa10ATEX0098**

4 Equipment or Protective System: **A Type 5550 Vibration Switch**

5 Manufacturer: **Metrix Instrument Company**

6 Address: **8824 Fallbrook Drive, Houston, Texas 77064, USA**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR10.0034/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN60079-0: 2009

EN60079-1: 2007

EN60079-31: 2008

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

Ex II 2GD 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

This certificate may only be reproduced in its entirety, without any change, schedule included.

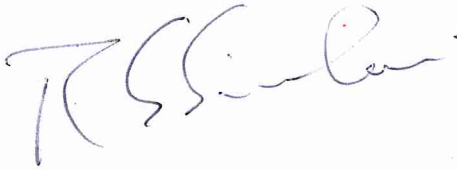
Baseefa Customer Reference No. **0708**

Project File No. **10/0037**

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DIRECTOR
On behalf of
Baseefa

METRIX DOC NO: 1187250
REV: A



13

Schedule

14

Certificate Number Baseefa10ATEX0098

15 Description of Equipment or Protective System

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) under an EC-Type Examination Certificate to Directive 94/9/EC.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR10.0034/00

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
9006-IECEX	1	A	02.24.10	General Details
9006-IECEX	2	A	02.24.10	General Assembly
9006-IECEX	3	A	02.24.10	Cover Details
9006-IECEX	4	A	02.24.10	Enclosure Material Specification
9006-IECEX	5	A	02.24.10	Base Details
9006-IECEX	6	A	02.24.10	Cable Entry Details
9006-IECEX	7	A	02.24.10	Type Code Details
9006-IECEX	8	A	02.24.10	Internal Circuit Diagram
9006-IECEX	9	A	02.24.10	Internal Assembly
9006-IECEX	10	A	02.24.10	Seal Material Specification
9006-IECEX	11	A	02.24.10	Seal Material Specification
9006-IECEX	12	A	02.24.10	Certification Label