

1 **TYPE EXAMINATION CERTIFICATE**

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

3 Type Examination Certificate Number: **Baseefa15ATEX0141X – Issue 1**

3.1 In accordance with Article 41 of Directive 2014/34/EU, 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 Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **Model 5485C Velocity Transducer**

5 Manufacturer: **Metrix Instrument Co.**

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

7 This re-issued certificate extends Type Examination Certificate No. Baseefa15ATEX0141X to apply to product 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 SGS Fimko Oy certifies that this product 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

8.1 The original certificate was issued by SGS Baseefa Ltd It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy. The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

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

EN IEC 60079-0:2018 EN IEC 60079-7:2015+A1:2018

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 product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.

12 The marking of the product shall include the following:

Ⓢ II 3G Ex ec IIC T* Gc *See Schedule for Temperature Classification

SGS Fimko Oy Customer Reference No. **0708**

Project File No. **20/0577**

METRIX Doc No: 1480826
REV: B

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Mikko Välimäki
SGS Fimko Oy

13 **Schedule**

14 **Certificate Number Baseefa15ATEX0141X – Issue 1**

15 **Description of Product**

The Model 5485C Velocity Transducer is designed to measure vibrations and convert them into an output signal. It comprises a coil and magnet housed within a stainless steel enclosure. Electrical connections are made via a two-pole connector or integral cable.

Input parameters

Max rated input: 28V

16 **Report Number**

See Certificate History

17 **Specific Conditions of Use**

1. The Temperature Classification and ambient temperature range of the Model 5485C can vary and may be as follows:

- T6 $-54^{\circ}\text{C} \leq T_a \leq +45^{\circ}\text{C}$
- T5 $-54^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
- T4 $-54^{\circ}\text{C} \leq T_a \leq +95^{\circ}\text{C}$
- T3 $-54^{\circ}\text{C} \leq T_a \leq +160^{\circ}\text{C}$
- T2 $-54^{\circ}\text{C} \leq T_a \leq +260^{\circ}\text{C}$
- T1 $-54^{\circ}\text{C} \leq T_a \leq +375^{\circ}\text{C}$

2. The terminations of the flying leads of the integral cable must be afforded a degree of protection of at least IP54 in accordance with the requirements of EN IEC 60079-7 and EN/IEC 60529.

3. External provision must be made to ensure that the maximum rated input is not exceeded by more than 40%.

4. The connector must not be disconnected whilst the equipment is energised.

18 **Essential Health and Safety Requirements**

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.8	Overloading of equipment (protection relays, etc)
1.4.1	External effects
1.4.2	Aggressive substances, etc
1.2.7	Protection against other hazards

19 **Drawings and Documents**

METRIX Doc No: 1480826
REV: B

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
5485C-AGENCY	1 & 2	D	04-21-09	Assembly, HI-TEMP, Velocity Transducer 5485C
7007-XXX-AGENCY	1 of 1	B	03-30-11	Magnet
8062-XXX-IECEX-AGENCY*	1 of 1	B	08-14-15	Nameplate, Marking, 5485C

*This drawing is common to BAS22UKEX0092X.

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
4850-XXX-AGENCY	1 of 1	A	04-21-09	Assembly, Cable High Temperature Transducer
5485C-004-AGENCY	1 of 1	C	04-21-09	Part List, Assy Hi-Temp Velocity Transducer
5485C-XXX-AGENCY	1 & 2	C	04-21-09	Parts List 5485C
8433-XXX-AGENCY	1 of 1	B	04-21-09	Assembly, Bobbin M5

All drawings are common to, and held with, IECEx BAS 15.0095X.

20 Certificate History

Certificate No.	Date	Comments
Baseefa15ATEX0141X	7 September 2015	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2012+A11:2013 & EN 60079-15:2010 as Ex nA equipment is documented in Test Report No. GB/BAS/ExTR15.0245/00. Project File No. 15/0575.
Baseefa15ATEX0141X Issue 1	22 March 2024	This issue of the certificate permits minor drawing changes and confirms that the current design meets the requirements of EN IEC 60079-0:2018 & EN IEC 60079-7:2015+A1:2018 for Ex ec equipment, including the revision of the equipment marking in accordance with these standards. Test Report No. GB/SGS/ExTR24.0049/00. Project File No. 20/0577.

For drawings applicable to each issue, see original of that issue.



The following pages are the prior revisions of this certificate.

1 **TYPE EXAMINATION CERTIFICATE**

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

3 Type Examination Certificate Number: **Baseefa15ATEX0141X**
4 Equipment: **Model 5485C Velocity Transducer**
5 Manufacturer: **Metrix Instrument Co.**
6 Address: **8824 Fallbrook, Houston, Texas 77064, USA**

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

8 Baseefa certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment of Category 3 intended for use in potentially explosive atmospheres given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR15.0245/00**

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

EN 60079-0:2012+A11:2013 EN 60079-15:2010

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 is subject to special conditions for safe use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.

12 The marking of the equipment shall include the following :

⊕ II 3G Ex nA IIC T* Gc *See schedule for temperature classification

Baseefa Customer Reference No. **0708**

Project File No. **15/0575**

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SGS Baseefa Limited

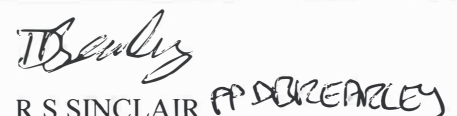
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R S SINCLAIR
GENERAL MANAGER

On behalf of SGS Baseefa Limited

**METRIX Doc No: 1480826
REV: A**

13

Schedule

14

Certificate Number Baseefa15ATEX0141X

15 Description of Equipment

The Model 5485C Velocity Transducer is designed to measure vibrations and convert them into an output signal. It comprises a coil and magnet housed within a stainless steel enclosure. Electrical connections are made via a two-pole connector or integral cable.

Input parameters

Max rated input: 28V

16 Report Number

GB/BAS/ExTR15.0245/00

17 Specific Conditions of Use

1. The Temperature Classification and ambient temperature range of the Model 5485C can vary and may be as follows:

T6	$-54^{\circ}\text{C} \leq T_a \leq +45^{\circ}\text{C}$
T5	$-54^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
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2. The terminations of the flying leads of the integral cable must be afforded a degree of protection of at least IP54 in accordance with the requirements of EN 60079-15 and EN/IEC 60529.
3. External provision must be made to ensure that the maximum rated input is not exceeded by more than 40%.
4. The connector must not be disconnected whilst the equipment is energised.

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
4850-XXX-AGENCY	1 of 1	A	04-21-09	Assembly, Cable High Temperature Transducer
5485C-004-AGENCY	1 of 1	C	04-21-09	Part List, Assy Hi-Temp Velocity Transducer
5485C-AGENCY	1 & 2	C	04-21-09	Assembly, High Temperature Velocity Transducer 5485C
5485C-XXX-AGENCY	1 & 2	C	04-21-09	Parts List 5485C
7007-XXX-AGENCY	1 of 1	A	03-30-11	Magnet
8062-XXX-LCIE-AGENCY	1 of 1	A	08-14-15	Nameplate, 5485C
8433-XXX-AGENCY	1 of 1	B	04-21-09	Assembly, Bobbin M5

All drawings are common to, and held with, IECEx BAS 15.0095X.