

1 **TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 Type Examination Certificate Number: **BAS22UKEX0092X Issue 0**
4 Product: **Model 5485C Velocity Transducer**
5 Manufacturer: **Metrix Instrument Co.**
6 Address: **8824 Fallbrook, Houston, Texas 77064, USA**

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

8 SGS United Kingdom Ltd. (formerly SGS Baseefa Ltd.) 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 Schedule 1 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended).

The examination and test results are recorded in a confidential report identified in the revision table at item 20.

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 and of the specified product and not to specific products 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 Customer Reference No. **0708**

Project File No. **20/0577**

METRIX DOC NO: 1966097
REV: A

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P OATES
CERTIFICATION MANAGER
On behalf of SGS United Kingdom Limited

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Schedule

14

Certificate Number BAS22UKEX0092X - Issue 0

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 Item 20 – 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
13	Protection against other hazards
14	Overloading of equipment (protection relays, etc)
21 (1)	External effects
21 (2)	Aggressive substances, etc

19 Drawings and Documents

Other than for Issue 0, Drawings and Documents that are introduced at a new edition of the certificate are marked with an asterisk symbol:

Number	Sheet	Issue	Date	Description
8062-XXX-IECE _x -AGENCY	1 of 1	B	08-14-15	Nameplate, Marking, 5485C

For all other drawings, see Baseefa15ATEX0141X.

METRIX DOC NO: 1966097
REV: A



20 Certificate History

Certificate No.	Date	Comments
BAS22UKEX0092X Issue 0	22 March 2024	Prime Certificate. Report Number: GB/SGS/ExTR24.0049/00 Project Number: 20/0577 Original issue of the certificate
For drawings applicable to each issue, see original of that issue.		