

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**

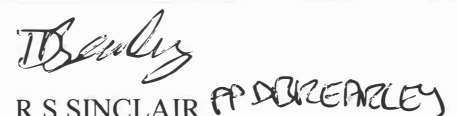
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**R S SINCLAIR**  
GENERAL MANAGER

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

- 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	$-54^{\circ}\text{C} \leq T_a \leq +375^{\circ}\text{C}$
- 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.
- External provision must be made to ensure that the maximum rated input is not exceeded by more than 40%.
- 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.