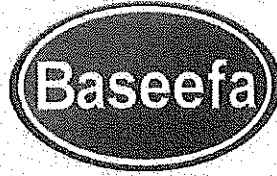


Certificate Number
Baseefa03ATEX0259/3



Issued 12 April 2011
Page 1 of 2

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: Baseefa03ATEX0259/3

4 Equipment or Protective System: Vibration Transducer Type SA6350

5 Manufacturer: Metrix Instrument Co

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

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0259 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. **11/0292**

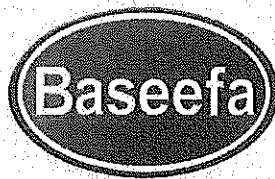
This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

A handwritten signature in black ink, appearing to read "R S Sinclair".
R S SINCLAIR
DIRECTOR
On behalf of
Baseefa

METRIX DOC No: 1159683
REV: A



13

Schedule

14

Certificate Number Baseefa03ATEX0259/3

15

Description of the variation to the Equipment or Protective System

Variation 3.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0:2009 and EN 60079-11:2007 in respect of the differences from EN 50014:1997 + Amds 1 & 2, EN 50020:2002 and EN 50284:1999 and that none of these differences affect this equipment.

The equipment is now marked:

Ⓢ II 1 G Ex ia IIC T1 Ga -40°C ≤ Ta ≤ +325°C

16

Report Number

None.

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.

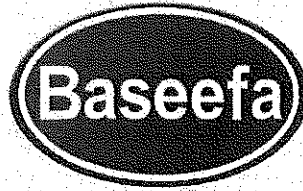
19

Drawings and Documents

Number	Sheet	Issue	Date	Description
9458-XXX	1 to 4	C	-	Stencil, Marking Accelerometer Housing

The following pages are the prior revisions of this certificate.

Certificate Number
Baseefa03ATEX0259/2



Issued 9 October 2009
Page 1 of 2

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: Baseefa03ATEX0259/2

4 Equipment or Protective System: Vibration Transducer Type SA6350

5 Manufacturer: Metrix Instrument Co

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

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0259 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. 09/0539

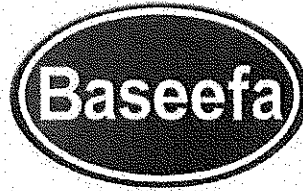
This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

A handwritten signature in black ink, appearing to read "R S Sinclair".

Baseefa
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Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa

METRIX DOC No: 1159683
REV: A



13

Schedule

14

Certificate Number Baseefa03ATEX0259/2

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

Variation 2.1

To permit minor drawing changes that do not affect the original assessment.

16 **Report Number**

None.

17 **Special Conditions for Safe Use**

None

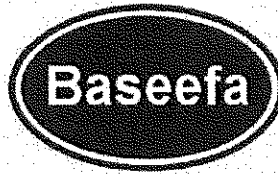
18 **Essential Health and Safety Requirements**

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

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
SA6350-00-00-000	1 of 1	B	05/22/03	Assembly, Vibration Transducer SA6350-4-050-4-050-0
SA6350-00-00-000-01	1 of 1	B	05/22/03	Assembly, Vibration Transducer SA6350-4-050-6-000-0
SA6350-00-00-000-02	1 of 1	B	05/22/03	Assembly, Vibration Transducer SA6350-3-050-4-050-0
SA6350-00-00-000-03	1 of 1	B	05/22/03	Assembly, Vibration Transducer SA6350-3-050-6-000-0
SA6350-02-01-000-SCH	1 of 1	B	05/22/03	Schematic, Board of AMP VC-1
SA6350-02-01-000-PL	1 of 1	B	05/22/03	Parts List, PCB, Amplifier VC-1
SA6350-02-01-000-ASSY	1 of 1	B	05/22/03	Assembly, Board of AMP, VC-1
9458-XXX	1 to 4	B	05-22-03	Stencil, Marking Accelerometer Housing
SA6350-01-00-000	1 of 1	B	05/15/03	Assembly, Piezoelectric Transducer SA6350-4
SA6350-01-00-000-01	1 of 1	B	05/15/03	Assembly, Piezoelectric Transducer SA6350-3
SA6350-01-00-000-SCH	1 of 1	A	04/21/03	Schematic, Piezoelectric Transducer
SA6350-02-01-001-PCB	1 of 1	A	04/21/03	Printed Circuit Board
SA6350-XXX	1 of 1	B	05-22-03	Assembly, Accelerometer
9459	1 of 1	B	05-16-03	Installation, SA6350 Accelerometer

Certificate Number
Baseefa03ATEX0259/1



Issued 24th March 2004
Page 1 of 2

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: Baseefa03ATEX0259/1

4 Equipment or Protective System: Vibration Transducer type SA6350

5 Manufacturer: Metrix Instrument Company

6 Address: 1711 Townhurst Drive, Houston, Texas, USA

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0259 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 (2001) Ltd. Customer Reference No. 0708

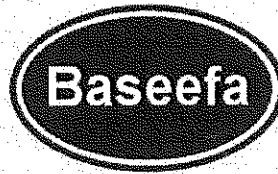
Project File No. 03/0849

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa (2001) Ltd.
Health and Safety Laboratory Site, Harpur Hill,
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Telephone +44 (0) 1298 28255 Fax +44 (0) 1298 28216
e-mail info@baseefa2001.biz web site www.baseefa2001.biz
Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,
Derbyshire, SK17 9BJ

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd

METRIX DOC No: 1159683
REV: A



13

Schedule

14

Certificate Number Baseefa03ATEX0259X/1

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

Variation 1.1

To permit minor electrical and label changes to the apparatus. These changes do not affect the intrinsic safety assessment previously done.

16 **Report Number**

None

17 **Special Conditions for Safe Use**

None

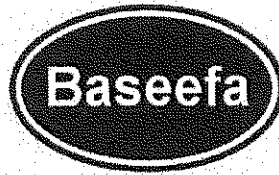
18 **Essential Health and Safety Requirements**

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

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
SA6350-00-00-000	1 of 1	A	5-17-04	Assembly, Vibration Transducer SA6350-4-050-4-050-0
SA6350-00-00-000-01	1 of 1	A	5-17-04	Assembly, Vibration Transducer SA6350-4-050-6-000-0
SA6350-00-00-000-02	1 of 1	A	5-17-04	Assembly, Vibration Transducer SA6350-3-050-4-050-0
SA6350-00-00-000-03	1 of 1	A	5-17-04	Assembly, Vibration Transducer SA6350-3-050-6-000-0
SA6350-02-01-000-ASSY	1 of 1	A	11-12-03	Assembly Board of Amplifier VC-1
SA6350-02-01-000-SCH	1 of 1	A	11-12-03	Schematic Board of Amplifier VC-1
SA6350-02-01-000-PL	1 of 1	A	11-12-03	Parts List, PCB, Amplifier VC-1
9458-XXX	1 to 4	A	1-13-04	Stencil, Marking Accelerometer Housing (Certification Label Details)

All the above drawings are also associated with certificate Baseefa03ATEX0711.



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: **Baseefa03ATEX0259**

4 Equipment or Protective System: **Vibration Transducer Type SA6350**

5 Manufacturer: **METRIX INSTRUMENT COMPANY**

6 Address: **1711 Townhurst Drive, Houston, Texas, 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 (2001) Ltd. 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. 03(C)0093

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

EN 50014: 1997 + Amendments 1 & 2 EN 50020: 2002 EN 50284: 1999

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 :

⊕ II 1 G EEx ia IIC (For temperature class and ambient temperatures, see schedule).

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

Baseefa (2001) Ltd. Customer Reference No. 0708

Project File No. 03/0093

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

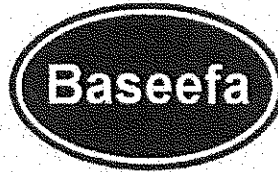
Baseefa (2001) Ltd.

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e-mail info@baseefa2001.biz web site www.baseefa2001.biz
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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.

Re-issued: 1st September 2003 to replace original.
Changes to page 2.

METRIX DOC No: 1159683
REV: A



13

Schedule

14

Certificate Number Baseefa03ATEX0259

15 Description of Equipment or Protective System

The Vibration Transducer Type SA6350 comprises an Accelerometer and a Charge Amplifier connected together by electrical cable protected by flexible metal tubing and is designed to monitor mechanical vibration and convert it into an electrical alternating current signal. Both the Accelerometer and the Charge Amplifier are housed in stainless steel enclosures.

One end of a piezoelectric crystal assembly in the Accelerometer is rigidly mounted to the case of the Accelerometer, which in turn is rigidly mounted to the equipment being monitored for vibration. The other end of the piezoelectric crystal assembly is fitted with a weight to give it inertia. As the Accelerometer moves with the vibration, the piezoelectric transducer is compressed and decompressed which in turn produces a piezoelectric voltage. This alternating current signal is amplified by the Charge Amplifier and re-imposed on the supply signals so that it can be remotely monitored.

T Class	Charge Amplifier	Accelerometer
T1	$-40^{\circ}\text{C} \leq T_a \leq +120^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq T_a \leq +325^{\circ}\text{C}$
T2	$-40^{\circ}\text{C} \leq T_a \leq +120^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq T_a \leq +280^{\circ}\text{C}$
T3	$-40^{\circ}\text{C} \leq T_a \leq +108^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq T_a \leq +175^{\circ}\text{C}$
T4	$-40^{\circ}\text{C} \leq T_a \leq +108^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq T_a \leq +120^{\circ}\text{C}$
T5	$-40^{\circ}\text{C} \leq T_a \leq +58^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$

Two wire Input Connection

$U_i = 28\text{V}$
 $I_i = 100\text{mA}$
 $P_i = 0.654\text{W}$
 $C_i = 56.3\text{nF}$
 $L_i = 0$

16 Report Number

03(C)0093

17 Special Conditions for Safe Use

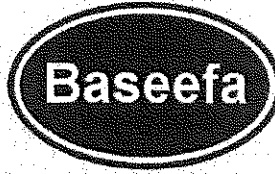
None

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
SA6350-00-00-000	1 of 1	*	22 May 03	Assembly Vibration Transducer SA6350-4-050-4-050-0
SA6350-00-00-000-01	1 of 1	*	22 May 03	Assembly Vibration Transducer SA6350-4-050-6-000-0
SA6350-00-00-000-02	1 of 1	*	22 May 03	Assembly Vibration Transducer SA6350-3-050-4-050-0
SA6350-00-00-000-03	1 of 1	*	22 May 03	Assembly Vibration Transducer SA6350-3-050-6-000-0



Number	Sheet	Issue	Date	Description
SA6350-01-00-000	1 of 1	*	22 May 03	Assembly Piezoelectric Transducer SA6350-4
SA6350-01-00-000-01	1 of 1	*	22 May 03	Assembly Piezoelectric Transducer SA6350-3
SA6350-01-00-000	1 of 1	*	22 May 03	Schematic Piezoelectric Transducer
SA6350-02-01-000-ASSY	1 of 1	*	22 May 03	Assembly Board of Amplifier VC-1
SA6350-02-01-000-SCH	1 of 1	*	22 May 03	Schematic Board of Amplifier VC-1
SA6350-02-01-000-PL	1 of 1	*	22 May 03	Parts List, PCB, Amplifier VC-1
SA6350-02-01-001-PCB	1 of 1	*	22 May 03	Printed Circuit Board (Artwork)
9458-XXX	1 to 4	*	22 May 03	Stencil, Marking Accelerometer Housing (Certification Label Details)
SA6350-XXX	1 of 1	*	22 May 03	Assembly, Accelerometer
9459	1 of 1	*	22 May 03	Installation, SA6350 Accelerometer