



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa03ATEX0205X/3**

4 Equipment or Protective System: **PROXIMITY PROBE DRIVER MODULE 5533**

5 Manufacturer: **Metrix Instrument Co**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0205X 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

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
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.

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

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



13 **Schedule**

14 **Certificate Number Baseefa03ATEX0205X/3**

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

Variation 2.1

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 T3 Ga $-40^{\circ}\text{C} \leq T_a \leq +100^{\circ}\text{C}$

16 **Report Number**

None.

17 **Special Conditions for Safe Use**

None additional to those listed previously

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
8567-XXX	1 to 9	H	-	Label, Identification, 5533

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: **Baseefa03ATEX0205X/2**
- 4 Equipment or Protective System: **PROXIMITY PROBE DRIVER MODULE 5533**
- 5 Manufacturer: **Metrix Instrument Co**
- 6 Address: **8824 Fallbrook, Houston, Texas, 77064, USA**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0205X 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.

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Baseefa Customer Reference No. **0708**

Project File No. **09/0524**

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 blue ink, appearing to read "R S Sinclair".

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa

Baseefa
Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
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METRIX DOC No: 1163003
REV: A



Schedule

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Certificate Number Baseefa03ATEX0205X/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 additional to those listed previously

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
8568-AGENCY	1 of 1	B	04-28-09	Schematic, 5533 Probe Driver
8570-AGENCY	1 of 1	B	07-17-95	Assembly, 5533 Probe Driver
8569	1 to 6	G	06-16-95	Drilling Detail, 5533 Probe Driver
8570-XXXX-AGENCY	1 to 2	B	04-28-09	Sub-Ass'y, PCB, Probe Driver
8567-XXX	1 to 9	G	10-13-06	Label Identification, 5544
5533-XXX-AGENCY	1 to 2	B	04-29-09	Assembly, Probe Driver 5533
5533-103-AGENCY	1 of 1	A	04-28-09	Ass'y, Probe Driver, DIN Rail

Drawings with the suffix "-AGENCY" replace drawings of the same drawing number without the suffix.



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: Baseefa03ATEX0205X/1

4 Equipment or Protective System: PROXIMITY PROBE DRIVER MODEL 5533

5 Manufacturer: METRIX INSTRUMENT CO.

6 Address: 1771 Townhurst Drive, Houston, Texas 77043, USA

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0205 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 (2001) Ltd. Customer Reference No. **0708**

Project File No. **04/0303**

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,
Buxton, Derbyshire SK17 9JN
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: 1163003
REV: A



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Schedule

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Certificate Number Baseefa03ATEX0205X/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

To permit a minor component change to the PCB assembly that does not affect the original assessment.

16 Report Number

None.

17 Special Conditions for Safe Use

None additional to those listed previously

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
8568	1 of 1	D	11-03-03	Schematic, 5533 Probe Driver
8570	1 of 1	F	11-03-03	Assembly, 5533 Probe Driver
8569	1 to 6	E	11-03-03	Drilling Detail, 5533 Probe Driver (PCB Artwork)
8570-XXX	1 to 2	D	11-03-03	Sub-Assy, PCB, Probe Driver (Parts List)



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: **Baseefa03ATEX0205X**

4 Equipment or Protective System: **PROXIMITY PROBE DRIVER MODEL 5533**

5 Manufacturer: **METRIX INSTRUMENT CO.**

6 Address: **1771 Townhurst Drive, Houston, Texas 77043, 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. **02(C)0535**

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 T3 (-51°C ≤ Ta ≤ +100°C)

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

Baseefa (2001) Ltd. Customer Reference No. **0708**

Project File No. **02/0536**

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.

R S SINCLAIR

DIRECTOR

On behalf of

Baseefa (2001) Ltd

Baseefa (2001) Ltd.
Health and Safety Laboratory Site, Harpur Hill,
Buxton, Derbyshire SK17 9JN
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

METRIX DOC No: 1163003
REV: A



Schedule

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14

Certificate Number Baseefa03ATEX0204X

15 Description of Equipment or Protective System

The Proximity Probe Driver Model 5533 consists of an encapsulated printed circuit board mounted inside a plastic enclosure (which may have a 35mm DIN rail mount adaptor as option). Connections to the Non-Hazardous Area are made via three screw terminals and to the Proximity Probe through a coaxial connector, all situated on top of the enclosure. A BNC socket is also provided on the top of the enclosure to allow field testing.

Input / Load Parameters

Terminals Sig, Com and -24V

$U_i = 28V$ $C_i = 0.012\mu F$
 $I_i = 138mA$ $L_i = 200\mu H$
 $P_i = 0.81W$

Terminals Probe and Test

$U_o = 28V$
 $I_o = 138mA$
 $P_o = 0.81W$

16 Report Number

03(C)0535

17 Special Conditions for Safe Use

1. The apparatus must be installed such that the terminals are protected to at least IP20.
2. The plastic enclosure may create an electrostatic hazard and should not be rubbed or cleaned with a dry cloth.
3. The apparatus must not be installed in an area of high dust-laden airflow.

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

<u>Number</u>	<u>Sheet</u>	<u>Issue</u>	<u>Date</u>	<u>Description</u>
5533-XXX	1 & 2	F	05-22-03	Probe Driver 5533, Assembly
5533-103	1	A	5-22-99	Probe Driver 5533 DIN Rail Mount Parts List
8567-XXX	1 of 5	E	09-27-01	Label, Probe Driver 5533
8567-002	3 of 5	E	09-27-01	Label, Probe Driver 5533
8568	1	C	8-9-02	Probe Driver 5533 Circuit Schematic
8569	1 to 6	D	10-15-96	Drilling Detail, Probe Driver 5533
8570	1	E	8-9-02	Probe Driver 5533 Assembly
8570-XXX	1 & 2	C	10-31-01	Probe Driver 5533 Parts List