

EC - TYPE EXAMINATION CERTIFICATE

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

- EC - Type Examination Certificate Number: **Baseefa03ATEX0204 – Issue 3**
- Equipment or Protective System: **Series 10,000 Probe**
- Manufacturer: **Metrix Instrument Co.**
- Address: **8824 Fallbrook, Houston, Texas 77064, USA**
- This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Baseefa, 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's. **See Certificate History**
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013 EN 60079-11:2012
- except in respect of those requirements listed at item 18 of the Schedule.
- 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.
- 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.
- The marking of the equipment or protective system shall include the following :
- Ex II 1G Ex ia IIC T3 Ga (-40°C ≤ Ta ≤ +177°C)
- Ex II 1G Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +110°C)

Baseefa Customer Reference No. **0708**

Project File No. **17/0388**

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SGS Baseefa Limited

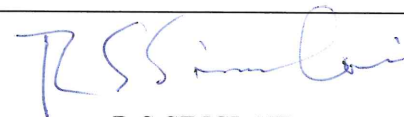
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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

METRIX DOC No: 1163674
REV: D

13

Schedule

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Certificate Number Baseefa03ATEX0204 – Issue 3

15 Description of Equipment or Protective System

The Series 10,000 Probe consists of a coil wound on to a plastic or ceramic mandrill and inserted into one end of an externally threaded, stainless steel cylindrical body. The coil varies in diameter from 5mm to 10mm depending on the version.

An integral coaxial or triaxial cable is connected to the coil, through the opposite end of the cylindrical body, and is terminated with a connector for mating with the Probe Driver.

An extension cable Type 7402 may be fitted between the Probe and the Probe Driver (Baseefa03ATEX0205X). The maximum length of the integral cable and extension cable is 10m and the cables may be provided with armoured protection. The maximum capacitance and inductance of the probe and extension cable is 2000pF and 200μH.

Input parameters

U_i	=	28V
I_i	=	138mA
L_i	=	200μH
C_i	=	2nF

16 Report Number

See certificate history

17 Specific Conditions of Use

None.

18 Essential Health and Safety Requirements

As follows, in addition to those covered by the standards at item 9.

Clause	Subject	Compliance
1.2.7	LVD type requirements	Manufacturer responsibility
1.2.8	Overloading of equipment (protection relays, etc.)	User/Installer responsibility
1.4.1	External effects	User/Installer responsibility
1.4.2	Aggressive substances, etc.	User/Installer responsibility

19 Drawings and Documents

New drawings submitted for this issue of certificate.

Number	Sheet	Issue	Date	Description
1158690	1 of 1	D	02-20-13	Proximity Probe Series Designations
10000-AGENCY	1 & 2	D	05-22-03	Assy, Proximity Probes

Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
7402	1	K	05-22-03	Assembly, Extension Cable 7402
7402-LG-01	1	A	04-19-94	Extension Cable 7402 Parts List
7402-XXX	1	E	06-20-88	Extension Cable 7402 Sub-Assembly Parts List

METRIX DOC No: 1163674
REV: D

Number	Sheet	Issue	Date	Description
8141-003	1	B	05-22-03	Label for Probe Cable
10001-A-B-LG-002	1	J	01-23-86	Probe Assembly Parts List. Non-Armoured

20 Certificate History

Certificate No.	Date	Comments
Baseefa03ATEX0204	1 July 2003	The release of the prime certificate. The associated test and assessment is documented in Test Report No. 02(C)0535.
Baseefa03ATEX0204/1	29 January 2013	To permit minor drawing changes, a change to the minimum ambient to -40°C and to confirm that the equipment meets the requirements of EN 60079-0:2012 & EN 60079-11:2012, including revision of the equipment marking. Test Report No. GB/BAS/ExTR11.0237/00. Project File No. 11/0069
Baseefa03ATEX0204 Issue 2	8 March 2016	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate, correction of the cable length limit to 10m from 9m, permits the introduction of a triaxial cable option, introduces a temperature classification T4 variant and confirms the current design meets the requirements of EN 60079-0:2012+A11:2013. Test Report No. GB/BAS/ExTR16.0047/00. Project File No. 16/0142.
Baseefa03ATEX0204 Issue 3	21 November 2017	To permit minor mechanical changes (a ceramic mandrill) and an increase to the C_i value, now stated as $C_i = 2nF$. Test Report No. GB/BAS/ExTR17.0350/00. Project File No. 17/0388.
For drawings applicable to each issue, see original of that issue.		



The following pages are the prior revisions of this certificate.

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: **Baseefa03ATEX0204 – Issue 2**

4 Equipment or Protective System: **Series 10,000 Probe**

5 Manufacturer: **Metrix Instrument Co.**

6 Address: **8824 Fallbrook, Houston, Texas 77064, 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, 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's. See Certificate History

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

EN 60079-0:2012+A11:2013 EN 60079-11:2012

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 1G Ex ia IIC T3 Ga (-40°C ≤ Ta ≤ +177°C)

 II 1G Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +110°C)

Baseefa Customer Reference No. 0708

Project File No. 16/0142

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R S SINCLAIR 

GENERAL MANAGER

On behalf of SGS Baseefa Limited

METRIX DOC No: 1163674
REV: C

13 **Schedule**

14 **Certificate Number Baseefa03ATEX0204 – Issue 2**

15 **Description of Equipment or Protective System**

The Series 10,000 Probe consists of a coil wound on to a plastic mandrill and inserted into one end of an externally threaded, stainless steel cylindrical body. The coil varies in diameter from 5mm to 10mm depending on the version.

An integral coaxial or triaxial cable is connected to the coil, through the opposite end of the cylindrical body, and is terminated with a connector for mating with the Probe Driver.

An extension cable Type 7402 may be fitted between the Probe and the Probe Driver (Baseefa03ATEX0205X). The maximum length of the integral cable and extension cable is 10m and the cables may be provided with armoured protection. The maximum capacitance and inductance of the probe and extension cable is 1000pF and 200μH.

Input parameters

U_i	=	28V
I_i	=	138mA
L_i	=	200μH
C_i	=	1nF

16 **Report Number**

GB/BAS/ExTR16.0083/00

17 **Specific Conditions of Use**

None.

18 **Essential Health and Safety Requirements**

As follows, in addition to those covered by the standards at item 9.

Clause	Subject	Compliance
1.2.7	LVD type requirements	Manufacturer responsibility
1.2.8	Overloading of equipment (protection relays, etc.)	User/Installer responsibility
1.4.1	External effects	User/Installer responsibility
1.4.2	Aggressive substances, etc.	User/Installer responsibility

19 **Drawings and Documents**

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
1158690	1 of 1	C	02-20-13	Proximity Probe Series Designations
10000-AGENCY	1 & 2	C	05-22-03	Assy, Proximity Probes

These drawings are common to Baseefa11ATEX0139X, IECEx BAS 11.0066X and IECEx BAS 11.0065 and held with the latter.

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
7402	1	K	05-22-03	Assembly, Extension Cable 7402
7402-LG-01	1	A	04-19-94	Extension Cable 7402 Parts List

Number	Sheet	Issue	Date	Description
7402-XXX	1	E	06-20-88	Extension Cable 7402 Sub-Assembly Parts List
8141-003	1	B	05-22-03	Label for Probe Cable
10001-A-B-LG-002	1	J	01-23-86	Probe Assembly Parts List. Non-Armoured

20 Certificate History

Certificate No.	Date	Comments
Baseefa03ATEX0204	1 July 2003	The release of the prime certificate. The associated test and assessment is documented in Test Report No. 02(C)0535.
Baseefa03ATEX0204/1	29 January 2013	To permit minor drawing changes, a change to the minimum ambient to -40°C and to confirm that the equipment meets the requirements of EN 60079-0:2012 & EN 60079-11:2012, including revision of the equipment marking. Test Report No. GB/BAS/ExTR11.0237/00. Project File No. 11/0069
Baseefa03ATEX0204 Issue 2	8 March 2016	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate, correction of the cable length limit to 10m from 9m, permits the introduction of a triaxial cable option, introduces a temperature classification T4 variant and confirms the current design meets the requirements of EN 60079-0:2012+A11:2013. Project File No. 16/0142. Test Report No. GB/BAS/ExTR16.0083/00.
For drawings applicable to each issue, see original of that issue.		



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: **Baseefa03ATEX0204/1**
- 4 Equipment or Protective System: **Series 10,000 Probe**
- 5 Manufacturer: **Metrix Instrument Co.**
- 6 Address: **8824 Fallbrook, Houston, Texas 77064, USA**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0204 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.
- 8 Item 9 of the original Certificate is replaced by “Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012 EN 60079-11:2012
except in respect of those requirements listed at item 18 of the Schedule.”
- 9 The marking of the equipment has changed from the original Certificate and shall include the following:
Ex II 1 G Ex ia IIC T3 Ga (-40°C ≤Ta ≤+177°C)

This certificate shall be held with the original certificate and may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0708**

Project File No. **11/0069**

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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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



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Schedule

14

Certificate Number Baseefa03ATEX0204/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

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

Variation 1.2

To permit a change in the ambient temperature range to $-40^{\circ}\text{C} \leq T_a \leq +177^{\circ}\text{C}$.

Variation 1.3

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0:2012, and EN 60079-11:2012 in respect of the differences from EN 50014:1997 + Amds 1 & 2 and EN 50020:2002 and that none of these differences, other than the marking, affect this equipment.

The marking is now: Ex II 1 G Ex ia IIC T3 Ga ($-40^{\circ}\text{C} \leq T_a \leq +177^{\circ}\text{C}$)

16 Report Number

GB/BAS/ExTR11.0237/00

17 Specific Conditions of 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
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10000-AGENCY	1 & 2	A	05.22.03	Assy, Proximity Probes
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This drawing is common to Baseefa11ATEX0139X, IECEx BAS 11.0065 & IECEx BAS 11.0066X and held with IECEx BAS 11.0065.

The following pages are the prior revisions of this certificate.



EC - TYPE EXAMINATION CERTIFICATE

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

EC - Type Examination Certificate Number: **Baseefa03ATEX0204**

Equipment or Protective System: **SERIES 10,000 PROBE**

Manufacturer: **METRIX INSTRUMENT CO.**

Address: **1711 Townhurst Drive, Houston, Texas 77043, USA**

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

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**

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.

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.

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.

The marking of the equipment or protective system shall include the following :

Ex II 1 G EEx ia IIC T3 (-34°C ≤ Ta ≤ +177°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. **02/0535**

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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R S SINCLAIR

DIRECTOR

On behalf of

Baseefa (2001) Ltd.

METRIX DOC No: 1163674
REV: A



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Schedule

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Certificate Number Baseefa03ATEX0204

15 Description of Equipment or Protective System

The Series 10,000 Probe consists of a coil wound on to a plastic mandrill and inserted into one end of an externally threaded, stainless steel cylindrical body. The coil varies in diameter from 5mm to 10mm depending on the version and any version has a maximum inductance of 200 μ H.

An integral coaxial cable is connected to the coil, through the opposite end of the cylindrical body, and is terminated with a coaxial connector for mating with the Probe Driver.

An extension cable Type 7402 may be fitted between the Probe and the Probe Driver (Baseefa03ATEX0205X). The maximum length of the integral cable and extension cable is 9m and the cables may be provided with armoured protection.

Input parameters

U_i = 28V
 I_i = 138mA
 L_i = 200 μ H
 C_i = <1nF

16 Report Number

03(C)0535

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
7402	1	K	05-22-03	Assembly, Extension Cable 7402
7402-LG-01	1	A	04-19-94	Extension Cable 7402 Parts List
7402-XXX	1	E	06-20-88	Extension Cable 7402 Sub-Assembly Parts List
8141-003	1	B	05-22-03	Label for Probe Cable
10,000	1 to 3	Original	05-22-03	Assembly, Proximity Probes
10001-A-B-LG-002	1	J	01-23-86	Probe Assembly Parts List. Non-Armoured