



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: **Baseefa03ATEX0416X/3**
- 4** Equipment or Protective System: **pH/ORP Sensor Model 396P-10/12-50**
- 5** Manufacturer: **Rosemount Analytical Inc.**
- 6** Address: **2400 Barranca Parkway, Irvine, California 92606, USA**
- 7** This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0416X 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. **0911**

Project File No. **07/1040**

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.

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Baseefa is a trading name of Baseefa (2001) Ltd
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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

14

Certificate Number Baseefa03ATEX0416X/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 60079-0:2006, EN 60079-11:2007 and EN 60079-26:2007 in respect of differences from EN 50014:1997 + Amds 1 & 2, EN 50020:1994 and EN 50284:1999 and that, with the exception of the marking code, none of the differences affect this equipment.

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**

None.



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: **Baseefa03ATEX0416X/2**
4 Equipment or Protective System: **pH/ORP Sensor Model 396P-10/12-50**
5 Manufacturer: **Rosemount Analytical Inc.**
6 Address: **2400 Barranca Parkway, Irvine, California 92606, USA**

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0416X 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. 0911

Project File No. 06/0205

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Schedule

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Certificate Number Baseefa03ATEX0416X/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 |
|--------|-------|-------|---------|-------------------|
| 396P | 1 - 4 | Y | 1-12-04 | Assy, Sensor 396P |



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: **Baseefa03ATEX0416X/1**

4 Equipment or Protective System: **pH/ORP Sensor Model 396P-10/12-50**

5 Manufacturer: **Rosemount Analytical Inc**

6 Address: **2400 Barranca Parkway, Irvine, California 92606, USA**

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa03ATEX0416X 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. 0911

Project File No. 05/0844

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.

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

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Schedule

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Certificate Number Baseefa03ATEX0416X/1

15

Description of the variation to the Equipment or Protective System

Variation 1.1

To permit a change to the maximum input current for the Model 396P-10/12-55 sensor option.

$I_i = 250\text{mA}$

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 |
|---------------|--------|-------|----------|--------------------------------------|
| 9241253-00/02 | 1 of 1 | E | 11-22-05 | Label, Cable Mod 396P-10/12-50/54/55 |



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: **Baseefa03ATEX0416X**

4 Equipment or Protective System: **pH/ORP SENSOR MODEL 396P-10/12-50**

5 Manufacturer: **ROSEMOUNT ANALYTICAL INC**

6 Address: **2400 Barranca Park, Irvine, California, 92714-5018, 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)0405**

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

EN 50014: 1997 + Amd 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 T4 (-20°C ≤ Ta ≤ +80°C) or T5 (-20°C ≤ Ta ≤ +40°C)

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Baseefa (2001) Ltd. Customer Reference No. **0911**

Project File No. **03/0405**

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13

Schedule

14

Certificate Number Baseefa03ATEX0416X

15 Description of Equipment or Protective System

The pH/ORP Sensor Models 396P-10/12-50 is designed to convert the high impedance signal from a pH/ORP electrode to a low impedance signal.

The sensor consists a pre-amplifier printed circuit board (pcb), pH/ORP sensing electrode and temperature sensor all encapsulated within a plastic enclosure. External connections are made to the integral cable. This model has the following input parameters:-

$U_i = 12V$
 $I_i = 230mA$
 $P_i = 1.1W$
 $C_i = 0.562\mu F$
 $L_i = 0$

Model 396P-10/12-54 is identical to Model 396P-10/12-50 except that it contains an alternative printed circuit board and has the following input parameters:-

$U_i = 20V$
 $I_i = 300mA$
 $P_i = 0.9W$
 $C_i = 0.171\mu F$
 $L_i = 0$

Model 396P-10/12-55 is identical to Model 396P-10/12-50 except that it contains another alternative printed circuit board and has the following input parameters:-

$U_i = 13.44V$
 $I_i = 170mA$
 $P_i = 0.6W$
 $C_i = 0.317\mu F$
 $L_i = 0$

16 Report Number

03(C)0405

17 Special Conditions for Safe Use

1. All pH/ORP Sensor Models have a plastic enclosure which must only be cleaned with a damp cloth to avoid the danger of ignition due to a build up of an electrostatic charge.
2. All pH/ORP Sensor Models are intended to be in contact with the process fluid and may not meet the 500V r.m.s. test to earth. This must be taken into consideration at installation.

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 |
|---------------|--------|-------|----------|---|
| 396P | 1 to 4 | W | 4.30.03 | General assembly 396P |
| 2400205 | 1 | E | 11.3.99 | Circuit, pre-amplifier, Model 396-10/12-50 |
| 22941-00 | 1 | J | - | PCB assembly, Model 396-10/12-50 |
| 32790-00 | 1 | F | 10.13.99 | PCB details Model 396-10/12-50 |
| 2400267 | 1 | D | 9.28.01 | Circuit, dual pre-amplifier, Model 396-10/12-55 |
| 23538-00 | 1 | G | 9.28.01 | PCB assembly, Model 396-10/12-55 |
| 33284-00 | 1 | G | 9.28.01 | PCB details Model 396-10/12-55 |
| 2400209 | 1 & 2 | D | 4.12.94 | Circuit, pre-amplifier, Model 396-10/12-54 |
| 22986-00 | 1 | F | 1.2.97 | PCB assembly, Model 396-10/12-54 |
| 32915-00 | 1 | E | 9.20.93 | PCB details Model 396-10/12-54 |
| 9241253-00/02 | 1 | D | 7.25.03 | Label Model 396P-10/12 |