



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)**

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

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

Project File No. **03/0405**

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.



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