



## EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS98ATEX2085X**

Equipment or Protective System: **THE SIGNALPOINT COMBUSTIBLE GAS SENSOR**

Manufacturer: **ZELLWEGER ANALYTICS LTD**

Address: **Hatch Pond House, 4 Stinsford Road, Nuffield Estate, Poole, Dorset, BH17 0RZ**

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

The Electrical Equipment Certification Service, notified body number 600 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 N°

**BASEEFA Certification Report No. 97(C)0652 dated 21 August 1998**

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

**EN50014: 1997**

**EN50018: 1994**

**EN50019: 1994**

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. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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



**II 2 G**

**EEx ed IIC T4 (T<sub>amb</sub> = -30°C to +40°C)**

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

File No: **EECS 0981/01/022**

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



**Electrical Equipment Certification Service**  
Health and Safety Executive  
Harpur Hill, Buxton, Derbyshire. SK17 9JN, United Kingdom  
Tel: 01298 28000 Fax: 01298 28244



**I M CLEARE**  
DIRECTOR  
21 August 1998



## Schedule

### EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX2085X

#### 18 Essential Health and Safety Requirements.

| Essential Health & Safety Requirements not covered by Standards listed at (9) |                                                  |                                                 |
|-------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|
| Clause                                                                        | Subject                                          | Compliance                                      |
| 1.0.2                                                                         | Analysis of possible operating faults            | BASEEFA Report No. 97(C)0652                    |
| 1.0.3                                                                         | Special checking and maintenance conditions      | Instructions & Special Conditioned for Safe Use |
| 1.0.6                                                                         | Instructions                                     | BASEEFA Report No. 97(C)0652                    |
| 1.2.2                                                                         | Components for incorporation or replacement      | BASEEFA Report No. 97(C)0652                    |
| 1.2.4                                                                         | Dust deposits                                    | Not applicable                                  |
| 1.2.5                                                                         | Additional means of protection                   | Not applicable                                  |
| 1.3.5                                                                         | Hazards arising from pressure compensation       | Not applicable                                  |
| 1.4.2                                                                         | Withstanding attack by aggressive substances     | BASEEFA Report No. 97(C)0652                    |
| 1.5                                                                           | General requirements for safety devices          | Not applicable                                  |
| 1.6.1                                                                         | Manual override                                  | Not applicable                                  |
| 1.6.2                                                                         | Emergency shutdown                               | Not applicable                                  |
| 1.6.3                                                                         | Hazards arising from power failure               | Not applicable                                  |
| 1.6.5                                                                         | Placing of warning devices as parts of equipment | Not applicable                                  |
| 2.0                                                                           | Category M                                       | Not applicable                                  |
| 2.1                                                                           | Category 1                                       | Not applicable                                  |
| 2.2.1                                                                         | Category 2G                                      | BASEEFA Report No. 97(C)0652                    |
| 2.2.2                                                                         | Category 2D                                      | Not applicable                                  |
| 2.3                                                                           | Category 3                                       | Not applicable                                  |
| 3                                                                             | Requirements for protective Systems              | Not applicable                                  |

#### 19 DRAWINGS

| <u>Number</u> | <u>Issue</u> | <u>Date</u> | <u>Description</u>                                         |
|---------------|--------------|-------------|------------------------------------------------------------|
| 2106E0001     | 9            | 7.7.98      | General Arrangement,<br>Signalpoint Combustible Gas Sensor |
| 2106E0005     | 2            | 16.6.98     | Cover Mounted Sensor                                       |

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BASEEFA List Keywords  
2GASDETE



## Schedule

### EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX2085X

#### 15 Description of Equipment or Protective System

The **Signalpoint Combustible Gas Sensor** is rated up to 50V d.c. with a maximum power dissipation of 2 watts and comprises a two part increased safety terminal enclosure manufactured in a black polyamide and a cover mounted flameproof sensor head manufactured in glass fibre reinforced polyphenylene sulphide (PPS).

The increased safety terminal enclosure may contain either one, 4 way or two, 2 way increased safety terminal blocks as specified on the certified drawings. The cover seal is provided by continuous silicone 'O' ring.

The flameproof sensor head is an electrocatalytic pellistor type unit with a stainless steel sinter moulded into the front section to facilitate the ingress of the sample gas. When fitted to the cover, this unit is encapsulated to provide a seal and prevent removal.

A single M20 threaded cable entry is provided in the side of the terminal box for use with a suitable component certified cable entry device.

This apparatus is to be used as described in Zellweger Operating Instructions No. MAN0515.P65.

This Certification is to European Directive 94/9/EC only, functional performance and compliance with other European Directives is the responsibility of the equipment manufacturer and/or the user as appropriate.

#### 16 Report Nos.

BASEEFA Certification Report No. 97(C)0652

#### 17 Special Conditions For Safe Use

1. All terminal screws, used and unused, shall be fully tightened down.
2. Only one conductor shall be connected to each terminal way, unless the multiple conductors have previously been joined in a suitable manner (for example with a crimped boot-lace ferrule) such that they form a single cohesive item for insertion into the terminal way.
3. Conductor insulation shall extend to within 1mm of the metal of the terminal throat.
4. The installer shall use an appropriate method to ensure a minimum ingress protection of IP54 at the cable entry
5. Any shrouding/connected metal work (when used) must be effectively earthed.



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: **BAS98ATEX2085X/1**

4 Equipment or Protective System: **THE SIGNALPOINT COMBUSTIBLE GAS SENSOR**

5 Manufacturer: **ZELLWEGER ANALYTICS LIMITED**

6 Address: **Hatch Pond House, 4 Stinsford Road, Nuffield Estate, Poole, Dorset, BH17 0RZ**

7 This supplementary certificate extends EC-Type Examination Certificate No. BAS98ATEX2085X 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 and without any change, schedule included.

File No: EECS 0981/01/022

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



**Electrical Equipment Certification Service**  
Health and Safety Executive  
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom  
Tel: 01298 28000 Fax: 01298 28244

**I M CLEARE**  
**DIRECTOR**  
**6 October 1998**



## Schedule

### SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS98ATEX2085X/1

#### Variation 1.1

Clarification of drawing detail.

#### Report Nos.

Not applicable.

#### Special Conditions For Safe Use

As original certificate.

#### Essential Health and Safety Requirements

As original certificate.

#### DRAWING

| <u>Number</u> | <u>Sheet</u> | <u>Issue</u> | <u>Date</u> | <u>Description</u>   |
|---------------|--------------|--------------|-------------|----------------------|
| 2106E0005     | 1 of 1       | 3            | 09.09.98    | Cover Mounted Sensor |

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**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: **BAS98ATEX2085X/2**
- 4 Equipment or Protective System: **Signalpoint Combustible Gas Sensor**
- 5 Manufacturer: **Honeywell Analytics Limited**
- 6 Address: **Hatchpond House, 4 Stinsford Lane, Nuffield Estate, Poole, Dorset, BH17 0RZ**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. BAS98ATEX2085X 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa, Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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

Baseefa Customer Reference No. **0981**

Project File No. **06/0565**

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 BAS98ATEX2085X/2

### 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: 2006, EN60079-1: 2004 and EN60079-7: 2007 in respect of the differences from EN 50014: 1997 + Amendment 1 and 2, EN50018: 2000 and EN50019: 1994 and that none of these differences affect this equipment.

### 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                                |
|------------|--------|-------|----------|--------------------------------------------|
| 2106E00001 | 1 of 1 | 11    | 22/05/08 | Certification Drawing Signal Point Sensor. |





**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: **BAS98ATEX2085X/3**
- 4 Equipment or Protective System: **Signalpoint Combustible Gas Sensor**
- 5 Manufacturer: **Honeywell Analytics Limited**
- 6 Address: **Hatchpond House, 4 Stinsford Lane, Nuffield Estate, Poole, Dorset, BH17 0RZ**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. BAS98ATEX2085X 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa, Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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

Baseefa Customer Reference No. 0981

Project File No. 08/0723

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.

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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 BAS98ATEX2085X/3

15

### Description of the variation to the Equipment or Protective System

#### Variation 3.1

Minor changes to label marking detail

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                              |
|-----------|--------|-------|----------|------------------------------------------|
| 2106E0001 | 1 of 1 | 12    | 01/10/08 | Certification Drawing Signalpoint Sensor |



**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: **BAS98ATEX2085X/4**
- 4** Equipment or Protective System: **Signalpoint Combustible Gas Sensor**
- 5** Manufacturer: **Honeywell Analytics Limited**
- 6** Address: **Hatchpond House, 4 Stinsford Lane, Nuffield Estate, Poole, Dorset, BH17 0RZ**
- 7** This supplementary certificate extends EC – Type Examination Certificate No. **BAS98ATEX2085X** 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa, Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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

Baseefa Customer Reference No. **0981**

Project File No. **10/0079**

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.

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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 BAS98ATEX2085X/4

15

### Description of the variation to the Equipment or Protective System

#### Variation 4.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0: 2009 and EN60079-1: 2007 in respect of the differences from EN 60079-0: 2006 and EN60079-1: 2004 and that none of these differences affect this equipment other than the marking.

The Signalpoint Combustible Gas Sensor is now marked:-

Ex de IIC T4 Ta = -30°C to +40°C Gb

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                                |
|------------|-------|-------|----------|--------------------------------------------|
| 2106E00001 | 1     | 13    | 08.10.10 | Certification Drawing Signal Point Sensor. |
| 2106E00001 | 2     | 13    | 13.10.10 | Certification Drawing Signal Point Sensor. |