



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: **Baseefa04ATEX0114X**

4 Equipment or Protective System: **THE TYPE 672DE\*\* HIGH PRESSURE DIFFERENTIAL SWITCH**

5 Manufacturer: **CUSTOM CONTROLS SENSORS INCORPORATED**

6 Address: **21111 Plummer Street, Chatsworth, California 91311, 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)0339

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

**EN 60079-0: 2004**

**EN 60079-1: 2004**

**EN 50281-1-1: 1998 + Amendment 1**

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 2 GD Ex d IIC T85°C (T<sub>amb</sub> -34°C to +71°C) and T100°C (T<sub>amb</sub> -34°C to +86°C)**

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

Baseefa Customer Reference No. 0253

Project File No. 03/0339

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**

Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ  
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa (2001) Ltd  
Registered in England No. 4305578 at the above address

**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa (2001) Ltd.



13

## Schedule

14

Certificate Number Baseefa04ATEX0114X

### 15 Description of Equipment or Protective System

The Type 672DE\*\* High Pressure Differential Switch rated as specified on the certificate schedule drawings with a maximum inlet pressure of 3000p.s.i. comprises a two part rectangular stainless steel enclosure, incorporating in its upper part, a threaded sealed switch assembly screwed into a thread provided and secured by a grub screw.

The lower part of the enclosure incorporates an inlet process pressure or temperature actuator mechanism in a vented adjustment chamber which serves to operate a push rod which passes through the wall between the upper and lower parts of the enclosure.

The switch assembly comprises a welded stainless steel body incorporating potted integral cabling, operating diaphragm and a single or double switch device.

One core of the integral cabling is connected to the body of the switch assembly internally and an external earth facility is provided.

The equipment provides ingress protection to IP66 and IP67 in accordance with EN 60529: 1991.

The type reference for the equipment includes provision to add as a suffix various letters and numbers denoting the range and type of switch.

#### Variation 0.1

Optional alternative arrangements incorporating 3-wire or 6-wire potted integral cabling. These arrangements do not include an internal earth connection and the provision of a suitable earth arrangement is the responsibility of the user.

### 16 Report Number

Baseefa Certification Report No 03(C)0339

### 17 Special Conditions for Safe Use

1. It shall be the responsibility of the user to ensure that the integral cabling is suitably protected against mechanical damage and terminated in a suitable junction or terminal facility which will maintain the ingress protection of the enclosure.
2. It shall be the responsibility of the user to ensure proper and effective arrangements are made for the earthing of the 3 wire and 6 wire versions of this equipment either by using the external earth facility provided as the means for effective earth fault protection and equi-potential bonding functions or some equally effective means.

### 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
672DE**	1	H	10/04	General Arrangement
672DE**	2	H	10/04	Body Detail
672DE**	3	H	10/04	Parts List
672DE**	4	H	10/04	Switch Assembly Detail
672DE**	5	H	10/04	Electrical Ratings & Certification Label



---

---

## Flameproof Certification

### Pressure Test Certificate

Certificate issued to **Custom Control Sensors Incorporated**  
Address **21111 Plummer Street, Chatsworth, California 91311, USA**

A representative sample of the equipment covered by certificate Baseefa04ATEX0114X has been satisfactorily subject to a pressure test at 30 bar.

Provided that adequate quality control and inspection is maintained during subsequent production, equipment manufactured to this certificate, including supplementaries, need not be subject to the routine individual pressure test that would otherwise be required by the standard to which it has been certified.

**This certificate applies only to the potted cable entry of the switch housing.**

This certificate is valid until 10 March 2006 unless earlier revoked or suspended.

Baseefa Customer Reference No. **0253**

Project File No. **03/0339**

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**  
Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ  
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)

Baseefa is a trading name of Baseefa (2001) Ltd  
Registered in England No. 4305578 at the above address



---

**List of certificates covered by Baseefa ATEX QA Notification: 0253**

**held by: Custom Control Sensors Inc**

---

Baseefa03ATEX0699X Baseefa03ATEX0700X

Baseefa04ATEX0114X

Baseefa05ATEX0011X

Date: 05 April 2005



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: **Baseefa04ATEX0114X/1**

4 Equipment or Protective System: **THE TYPE 672DE\*\* HIGH PRESSURE DIFFERENTIAL SWITCH**

5 Manufacturer: **CUSTOM CONTROL SENSORS INCORPORATED**

6 Address: **21111 Plummer Street, Chatsworth, California 91311, USA**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa04ATEX0114X** 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. **0253**

Project File No. **05/0408**

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**

Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ  
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Baseefa is a trading name of Baseefa (2001) Ltd  
Registered in England No. 4305578 at the above address

**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa (2001) Ltd.



13

## Schedule

14

Certificate Number Baseefa04ATEX0114X/1

15

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

#### Variation 1.1

Optional alternative materials for the 'O' ring arrangements and the square ring as specified on the certificate schedule drawings.

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	Issue	Date	Description
672DE** Sheet 1	J	12/05	General Arrangement
672DE** Sheet 2	J	12/05	Body Detail
672DE** Sheet 3	J	12/05	Parts List
672DE** Sheet 4	J	12/05	Switch Assembly Detail
672DE** Sheet 5	J	12/05	Electrical Ratings & Certification Label



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: **Baseefa04ATEX0114X/2**

4 Equipment or Protective System: **Type 672DE\*\* High Pressure Differential Switch**

5 Manufacturer: **Custom Control Sensors Incorporated**

6 Address: **21111 Plummer Street, Chatsworth, California 91311, USA**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa04ATEX0114X 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 60079-1:2007      EN 60079-31:2009**

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:

**⊕ II 2 GD Ex d IIC T6 Gb (T<sub>amb</sub> -34°C to +71°C) and T5 Gb (T<sub>amb</sub> -34°C to +86°C)**  
**Ex tb IIC T85°C Db(T<sub>amb</sub> -34°C to +71°C) and T100°C Db(T<sub>amb</sub> -34°C to +86°C) IP 66/67**

This certificate shall be held with the original certificate.

Baseefa Customer Reference No. **0253**

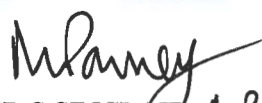
Project File No. **13/0513**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.baseefa.com/terms-and-conditions.asp>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

**SGS Baseefa Limited**

Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ  
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601  
e-mail [info@baseefa.com](mailto:info@baseefa.com) web site [www.baseefa.com](http://www.baseefa.com)  
Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

  
PPR S SINCLAIR MOWSEY  
GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

**Schedule**

14

**Certificate Number Baseefa04ATEX0114X/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 60079-0:2012, EN 60079-1:2007 and EN 60079-31:2009 in respect of the differences from the Standards to which this certificate was issued; none of these differences affect this equipment apart from a change to the marking requirements.

**16 Report Number**

Baseefa report 13(C)0513.

**17 Specific Conditions of 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**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
672DE**	1 to 5 inclusive	H	07/13	Switch, high pressure differential