



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: **Baseefa04ATEX0113**

4 Equipment or Protective System: **Type 6403 Pressure/Temperature Sensor**

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)0338**

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 EEx d IIC T85°C (T<sub>amb</sub> -34°C to +71°C) and/or 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. **03/0338**

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**

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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.



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## Schedule

14

Certificate Number Baseefa04ATEX0113

### 15 Description of Equipment or Protective System

The **Type 6403 Series Pressure Switch** comprises a cast aluminium body incorporating two separated flameproof enclosures. One of these enclosures is a terminal chamber, which is closed by a screwed locked cover and contains a three way terminal block; the other is a switch chamber, closed by a threaded locked plug and contains a switch assembly rated at 125V/250V/480V, 15A a.c., 125V, 0.5A d.c. and 30V d.c., 5A.

The threaded plug of the switch chamber has an integrally cast stem which is drilled throughout its length and fitted with a stainless steel bush held in position by flaring at each end. A push rod passes through this bush and is connected by linkage to a spring loaded diaphragm and pressure sensing assembly housed in an integral vented adjustment chamber.

The sealed switch assembly has an outer stainless steel envelope at the end of which is formed a bushing into which the connecting leads from the switch are encapsulated. This bushing passes through the dividing wall of the two flameproof enclosures of the body.

Both internal and external earth facilities are provided.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component) under an EC Type Examination Certificate to Directive 94/9/EC and when used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.

The equipment provides ingress protection to IP6X in accordance with EN 60529: 1991.

The terminal chamber only provides ingress protection to IPX6 and IPX7 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.

### 16 Report Number

Baseefa Certification Report No 03(C)0338

### 17 Special Condition 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
6403**	1	Z	10/05	General Arrangement
6403**	2	Z	10/05	Body and Internal Detail
6403**	3	Z	10/05	Switch Housing Detail
6403**	4	Z	10/05	Optional Alternative Pressure Port Arrangements
6403**	5	Z	10/05	Optional Alternative Port Arrangements
6403**	6	Z	10/05	Parts List
6403**	7	Z	10/05	Electrical Ratings and Repair Option Details