



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:

IECEx BAS 11.0104X

issue No.:2

Status:

Current

Date of Issue:

2014-10-15

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Certificate history:

Issue No. 2 (2014-10-15)

Issue No. 1 (2014-6-10)

Issue No. 0 (2011-9-26)

Applicant:

Delta Controls Limited
Riverside Business Park
Dogflud Way
Farnham
Surrey
GU9 7SS
United Kingdom

Electrical Apparatus:
Optional accessory:

Range of Sentry Pressure Switches

Type of Protection:

Intrinsic Safety

Marking:

**Ex ia IIC T5 / T6 Ga (-60°C ≤Ta ≤+80°C) / (-25°C ≤Ta ≤+60°C)
Ex ia IIIC T135°C Da (-60°C ≤Ta ≤+80°C)**


Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

General Manager

Signature:
(for printed version)


16/10/14

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





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Manufacturer: **Delta Controls Limited**
Riverside Business Park
Dogflud Way
Farnham
Surrey
GU9 7SS
United Kingdom

Additional Manufacturing location
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/BAS/ExTR11.0198/00

GB/BAS/ExTR14.0172/00

Quality Assessment Report:

GB/BAS/QAR06.0033/05



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Range of Sentry Pressure Switches are designed to operate one or two microswitches mounted within an enclosure and connected to intrinsically safe circuits. The microswitches are operated by a mechanical plunger assembly which passes through the enclosure wall and is actuated by an external diaphragm assembly. The external diaphragm assembly may be used to sense pressure, differential pressure or temperature by the use of various different mechanical sensor arrangements.

The apparatus comprises a powder coated aluminium enclosure with a mechanical plunger assembly containing a piston and diaphragm assembly which is connected externally to various process connections. The piston passes through a bushing arrangement into the main enclosure to actuate one or two microswitches. External electrical connections to the microswitches enter the aluminium enclosure via cable glands and are connected to the internal terminals. Although not required for the circuits, an internal earth terminal is provided which is connected to the metallic enclosure.

Each of the microswitches may be single or double pole, double throw switches and all the electrical connections must form part of the same intrinsically safe circuit. Where two microswitches are fitted then all the electrical connections must form part of the same intrinsically safe circuit. The electrical circuits are capable of withstanding a 500V test to earth.

The Range of Sentry Pressure Switches have various different mechanical sensor arrangements which are not controlled by the certification.

$U_i = 30V$ $I_i = 250mA$ $P_i = 0.6W$ $C_i = 0$ $L_i = 0$

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The Sentry Pressure, Differential Pressure and Temperature Switches must not be installed in a location where moving dust flow can generate an electrostatic charge on the equipment.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 2.1

This issue permits existing information (for example on Schedule Drawings) to be replaced by the revised certificate holders address. No other changes may be made to the certified design

File Reference: 14/0861