



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 ITS 04.0006X issue No.:1

Status: Current

Certificate history:
Issue No. 1 (2007-11-13)
Issue No. 0 (2004-3-15)

Date of Issue: 2007-11-13 Page 1 of 5

Applicant: **Delta Controls Limited**
Island Farm Avenue
West Molesey
Surrey
KT8 2UZ
United Kingdom

Electrical Apparatus: **Flameproof switch**
Optional accessory: **Pressure / Temperature sensors**

Type of Protection: **Flameproof**

Marking: **Ex d IIC T4 (Tamb -60°C to +80°C)**
or **Ex d IIC T6 (Tamb -60°C to +40°C)**

Approved for issue on behalf of the IECEx Certification Body: A T Austin

Position: Deputy Certification Manager

Signature:
(for printed version)

Date:

13th November 2007

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:
ITS Testing & Certification Limited ETL SEMKO
ITS House, Cleeve Road,
Leatherhead,
Surrey, KT22 7SB
United Kingdom

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Manufacturer: **Delta Controls**
Island Farm Avenue
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Surrey
KT8 2UZ
United Kingdom

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 manufacture'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 : 2000 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 3.1

IEC 60079-1 : 2001 Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
Edition: 4

*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

IECEX ATR:
04013260
07028084

File Reference:
UK/ITS/04/04013260
GB/ITS/ExTR07.0026/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

A Series 200 Pressure Switch comprising an enclosure, with threaded cover, manufactured in cast aluminium or cast iron. The cover is fitted with an integral locking arrangement. The interior of the enclosure is fitted with up to two microswitches rated at up to 10A, 440V ac with associated switch assembly and terminal block. The switch assembly is mechanically linked to an externally mounted pressure sensing actuator by means of a stainless steel operating rod which passes through a stainless steel bushing screwed into the base of the housing and secured by a lock nut. Cable entry holes are provided as specified on the certified drawings for the accommodation of suitably certified flameproof cable entry devices, with or without the interposition of a suitably certified flameproof thread adapter. Unused entries are to be fitted with suitably certified flameproof stopping plugs.

CONDITIONS OF CERTIFICATION: YES as shown below:

Special condition for safe use

The apparatus has a specified flamepath gap, between the operating rod and the bushing, which is less than the maximum permitted by IEC 60079-1. The user shall ensure that, in service, the diametral gap of this flamepath does not exceed 0.1mm.



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EQUIPMENT(continued):

DRAWINGS

1/50025	B	19.04.2004	Basic Arrangements – Series 230
10910	B	12.11.2003	Connection Diagram For 12k Resistors
14606	C	19.04.2004	Enclosure Assy – Classic
14608	A	06.11.2001	Variation – Additional M16 Tapping & Stopping Plug
14610	B	16.02.2004	Certification Label For Classic – ATEX
14611	C	25.02.2004	Enclosure Assy – Line Fault Monitoring
14620	A	22.01.2002	Alternative Mechanism Assy – Classic
14621	B	25.02.2004	Label Details – Classic
14622	A	06.11.2001	Basic Arrangement – 740/760
14623	A	06.11.2001	Variation Of Type 131 With Additional Dust Protection
14744	A	05.01.2004	Variation To Classic ATEX Model 304 – 400 Bar Static
14754	B	19.04.2004	Label Name – Sovereign Stamping Details For IECEx
1/50023	B	23.12.2003	Variations Of Pressure, Temperature And Flow Actuators



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

Issue 1: To permit the following changes to the flameproof switch:

- a) 1/50025 Rev B up-issued to Rev C to allow terminal blocks of equal or lesser dimensions and/or ratings.
- b) 14606 Rev C up-issued to Rev F to allow terminal blocks of equal or lesser dimensions and/or ratings, to allow a change in tolerance and dimension of the push rod and to include details of an additional KOSHA label.
- c) 14623 Rev A up-issued to Rev B to allow terminal blocks of equal or lesser dimensions and/or ratings.
- d) DS_20322 Rev A is an additional drawing showing the location of additional thread and TAG labels.

The above changes do not impair the safety of the apparatus

Amended drawings:

1/50025	C	05.05.2005	Basic Arrangements – Series 230
14606	F	21.08.2007	Enclosure Assy – Classic
DS_20322	A	23.08.2007	Additional thread label and TAG Flameproof Switch
14623	B	28.04.2005	Variation of Type 131 With Additional Dust Protection