



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 07.0096X issue No.:1

Certificate history:
Issue No. 1 (2010-12-6)
Issue No. 0 (2008-3-5)

Status: **Current**

Date of Issue: **2010-12-06** Page 1 of 4

Applicant: **Kaustubha Udyog**
7, Parichaya Society
1000/6D
Navi Peth
Pune 411 030
India

Electrical Apparatus: **Flameproof Pressure Switch**
Optional accessory:

Type of Protection: **Ex d, Ex tD**

Marking: **Ex d IIC Gb Ex tb IIIC Db T85°C (-20°C ≤ Ta ≤ +60°C) IP66**

Approved for issue on behalf of the IECEx
Certification Body:

pp R S Sinclair *MPOWNEY*

Position:

Managing Director

Signature:
(for printed version)

MPOWNEY

6/12/10

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:

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





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Manufacturer: **Kaustubha Udyog**
7, Parichaya Society
1000/6D
Navi Peth
Pune 411 030
India

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 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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/ExTR07.0175/00
GB/BAS/ExTR10.0267/00

Quality Assessment Report:

GB/BAS/QAR08.0006/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Flameproof Pressure Switch comprises a cylindrical enclosure with a 'T' shaped base and a circular threaded cover, both manufactured aluminium alloy, cast iron or stainless steel. The cover is locked with a stainless steel grub screw.

The enclosure contains terminals and up to two microswitches rated up to 240Va.c., 15A.

The microswitches are operated by a pushrod from the pressure sensing capsule attached to the enclosure base on a vented column. The pushrod enters the enclosure via a cylindrical bushing that also provides an adjustment of the sensitivity by varying the pressure on a spring in the vented column.

The various sensing capsules are separated from the vented column and flameproof enclosure by a pressure tight membrane.

The enclosure base includes internal and external earth connections.

Two cable entries threaded M20, ½"NPT or ¾"NPT are provided 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 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).

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The flamepaths of the push rod and bushing arrangements are specified with maximum gaps smaller than those shown in the standard. The manufacturer should be consulted for values if required for maintenance etc.
2. When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.



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

Variation 1.1

To permit the marking of a revised T85°C Temperature Classification.

Variation 1.2

To confirm that the equipment covered by this certificate now meets the requirement of IEC 60079-0: 2007, IEC 60079-1: 2007 and IEC 60079-31: 2008

The marking is now modified as follows :-

Ex d IIC Gb Ex tb IIIC Db T135°C (-20°C ≤ Ta ≤ +60°C) IP66

Variation 1.3

An alternative sensing capsule operating on temperature.

Variation 1.4

Mechanical changes to the external operating mechanism.

ExTR: GB/BAS/ExTR10.0267/00

File Reference: 10/0165