

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 07.0051** issue No.: **0** Certificate history:

Status: **Current**


Date of Issue: **2007-09-11** Page 1 of 3

Applicant: **K Controls Limited**
Process House,
Stone Close,
Horton Road,
West Drayton
Middlesex
UB7 8JU
United Kingdom

Electrical Apparatus: **Type 007 Control Monitor**
Optional accessory:

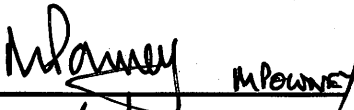
Type of Protection: **Ex d and ExtD**

Marking: **Ex d IIB+H2 tD A21 IP68 T* (-50°C ≤ Tamb ≤ *)**
*See Schedule

Approved for issue on behalf of the IECEx
Certification Body:  R S Sinclair

Position: **Managing Director**

Signature:
(for printed version)


11/9/07

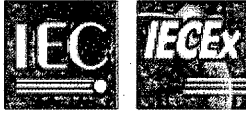
Date:

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.

Certificate issued by:

Baseefa (2001) Ltd.
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





IECEx Certificate of Conformity

Certificate No.: IECEx BAS 07.0051

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Issue No.: 0

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Manufacturer: **K Controls Limited**
Process House,
Stone Close,
Horton Road,
West Drayton
Middlesex
UB7 8JU
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 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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
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:

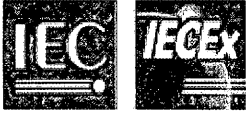
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/BAS/ExTR07.0099/00

Quality Assessment Report:

GB/BAS/QAR06.0081/00



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 07.0051

Date of Issue: 2007-09-11

Issue No.: 0

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Type 007 Control Monitor comprises a cast aluminium alloy enclosure with a stainless steel shaft passing through the base. The cover is secured to the base by eight M6 by 20mm long stainless steel socket head cap screws of grade A2-70 or stronger.

The enclosure may contain terminals, an encapsulated electronic module a potentiometer and up to four cams attached to the shaft which passes through the base of the enclosure. The cams operate either switches or proximity sensors.

The cover may be fitted with a shaft, driven from the cam shaft, to provide an external visual indication of the shaft position.

The internal arrangements have various ratings up to 275V.

Up to four cable entry holes 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 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).

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.

Temperature markings and ambient ranges where x indicates the combination of internal devices are as follows:

For subtypes identified as B6.x - T85°C (-50°C ≤ Tamb ≤ +40°C)

For subtypes identified as B5.x - T100°C (-50°C ≤ Tamb ≤ +40°C)

For subtypes identified as B4.x - T135°C (-50°C ≤ Tamb ≤ +80°C)

Alternative ambient temperature ranges that are within the maximum as shown above may also be used.

CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.



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INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: IECEx BAS 07.0051 issue No.:1

Certificate history:
Issue No. 1 (2012-1-31)
Issue No. 0 (2007-9-11)

Status: **Current**

Date of Issue: 2012-01-31 Page 1 of 4

Applicant: **K Controls Limited**
Process House,
Stone Close,
Horton Road,
West Drayton
Middlesex
UB7 8JU
United Kingdom

Electrical Apparatus: **Type 007 Control Monitor**
Optional accessory:

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

Marking: **Ex d IIB+H2 tD A21 IP68 T* (-50°C ≤ Tamb ≤ *), *See Schedule**

Approved for issue on behalf of the IECEx
Certification Body:

PP R S Sinclair *M POWNEY*

Position: General Manager

Signature:
(for printed version)

M Powney

31/1/12

Date:

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IECEX Certificate of Conformity

Certificate No.: IECEx BAS 07.0051

Date of Issue: 2012-01-31

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Page 2 of 4

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STANDARDS:

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IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0
IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6
IEC 60079-31 : 2008 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'
Edition: 1

*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/ExTR07.0099/00

GB/BAS/ExTR11.0211/00

Quality Assessment Report:

GB/BAS/QAR06.0081/03



IECEX Certificate of Conformity

Certificate No.: IECEx BAS 07.0051

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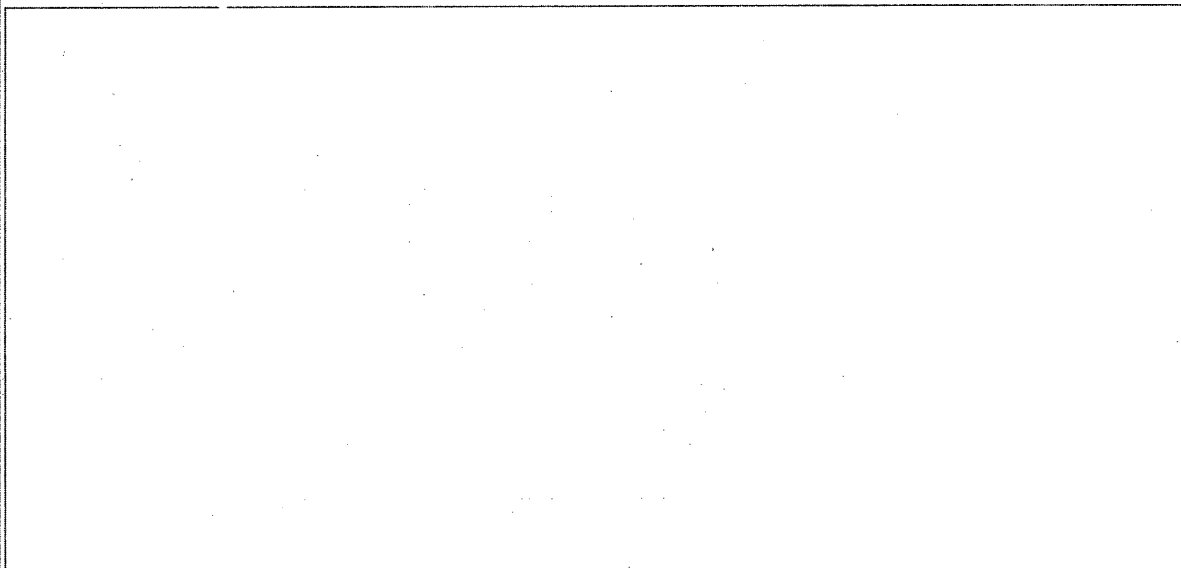
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For subtypes identified as B5.x - T100°C (-50°C ≤ Tamb ≤ +40°C)

For subtypes identified as B4.x - T135°C (-50°C ≤ Tamb ≤ +80°C)

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CONDITIONS OF CERTIFICATION: NO





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Certificate No.: IECEx BAS 07.0051

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

Variation 1.1

The equipment covered by this certificate has been reviewed against the requirements of IEC60079-0: 2011, IEC60079-1: 2007 and IEC61241-31: 2008 in respect of the differences from the standards to which this certificate was issued and compliance is confirmed.

The monitor is marked as indicated below depending upon the internal equipment installed.

Ex d IIB + H₂ T6 Ta -50°C to + 40°C Gb

Ex tb IIIC T85°C Ta -50°C to + 40°C Db IP68

or

Ex d IIB + H₂ T5 Ta -50°C to + 40°C Gb

Ex tb IIIC T100°C Ta -50°C to + 40°C Db IP68

or

Ex d IIB + H₂ T4 Ta -50°C to + 80°C Gb

Ex tb IIIC T135°C Ta -50°C to + 80°C Db IP68

The ingress protection IPX8 rating is 96 hours immersion at 30 metres.

ExTR: **GB/BAS/ExTR11.0211/00**

File Reference: **11/0613**