



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX BAS 07.0014X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 2 Issue 1 (2009-04-03)  
Issue 0 (2007-05-01)  
Date of Issue: 2021-04-27  
Applicant: **Kinetrol Limited**  
Kinetrol Limited  
Trading Estate  
Farnham  
Surrey  
GU9 9NU  
United Kingdom  
Equipment: **XLS Box**  
Optional accessory:  
Type of Protection: **Flameproof or Dust Protection by Enclosure**  
Marking: **Ex db IIC T\* Gb Ta -40°C to +\*°C**  
**Ex tb IIIC T\*°C Db IP66 Ta -20°C to +\*°C \* See Description**

Approved for issue on behalf of the IECEx  
Certification Body:

**Mr R S Sinclair**

Position:

**Technical Manager**

Signature:  
(for printed version)

Date:

14.5.2021

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

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





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Date of issue: 2021-04-27

Issue No: 2

Manufacturer: **Kinetrol Limited**  
Trading Estate  
Farnham  
Surrey  
GU9 9NU  
**United Kingdom**

Additional  
manufacturing  
locations:

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

This Certificate **does not** indicate compliance with 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 Reports:

[GB/BAS/ExTR07.0031/00](#)

[GB/BAS/ExTR09.0051/00](#)

[GB/BAS/ExTR15.0223/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0011/08](#)



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Issue No: 2

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The XLS Box comprises a circular enclosure with a threaded cover manufactured from aluminium. The enclosure has a steel operating rod passing through the centre of the base and cover. The top of the operating rod may be fitted with an indicating assembly, and the base of the shaft is fitted with a square socket for connection to various types of instruments. Internally there is a series of microswitches, a PCB, and connecting terminals which may be installed in different configurations to create different Flameproof Limit Switch units.

Alternatively the limit switch may be provided with flame arresters and pneumatic switches within the enclosure when the maximum air line pressure is 7bar and the maximum ambient temperature is 60°C. Models with this arrangement are designated with the model number \*\*\*\*\*XE\*\*S\*\*\*\*, and are not for use in explosive dust atmospheres.

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

Internal and external earthing facilities are provided.

The equipment may be marked:

Ex db IIC T5/T6 Gb  
T5 -40°C ≤ ta ≤ +80°C / T6 -40°C ≤ ta ≤ +70°C  
Ex tb IIIC T95°C Db -20°C ≤ ta ≤ +80°C IP 66

Equipment with model number \*\*\*\*\*XE\*\*S\*\*\*\* shall be marked:

Ex db IIC T6 Gb -40°C ≤ ta ≤ +60°C

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1. It is the responsibility of the installation engineer to ensure that suitably IECEx/ATEX gas group IIC equipment certified cable glands and blanking plug are installed, which are suitable for the ambient temperature range, in accordance with IEC60079-14. Selection of entry devices shall also ensure that the IP rating of IP66 is maintained.
2. Potential electrostatic charging hazard – See instruction.
3. Flameproof joints are not intended to be repaired
4. When fitted with flame arrestors the equipment must not be used where atmospheric pressure exceeds 1070mbar. (1.07bar)



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

### Variation 2.1

To assess the equipment up to and against the following standards: IEC 60079-0:2017 Edition 7, IEC 60079-1:2014 Edition 7, IEC 60079-31:2013 Edition 2.

### Variation 2.2

To allow the equipment to be marked T6 at an alternative ambient of +70°C

### Variation 2.3

To introduce an alternative internal arrangement, defined as model \*\*\*\*\*XE\*\*S\*\*\*\*, incorporating a solenoid, and to allow the conduit entries to be fitted with a breathing device. This arrangement shall only be certified for gas atmospheres and shall be limited to a maximum ambient of +60°C, and marked as follows:

Ex db IIC T6 Gb -40°C ≤ ta ≤ +60°C

### Variation 2.4

A reduction in minimum ambient temperature to -20°C when used in flammable dust atmospheres.

### Variation 2.5

To allow the introduction of an alternative grade of mild steel.

### Variation 2.6

To allow minor drawing changes which do not affect certification of the product.

ExTR: **GB/BAS/ExTR15.0223/00**

File Reference: **13/0639**