



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 SIR 10.0131 issue No.:1
Status: Current
Date of Issue: 2011-12-20 Page 1 of 4

Certificate history:
Issue No. 1 (2011-12-20)
Issue No. 0 (2010-11-29)

Applicant: **Positek Limited**
L6 The Link
Andoversford Industrial Estate
Andoversford
Cheltenham GL54 4LB
United Kingdom

Electrical Apparatus: **An X005 3-Port Galvanic Isolation Amplifier**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **[Ex ia Ga Da] IIC**
[Ex ia Ma] I
IEC 60079-0:2007 Edition 5 was used for guidance in respect of marking

Approved for issue on behalf of the IECEx
Certification Body:

C Ellaby

Position:

Deputy Certification Manager

Signature:
(for printed version)

Date:

2011-12-20

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:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom



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Manufacturer: **Positek Limited**
L6 The Link
Andoversford Industrial Estate
Andoversford
Cheltenham GL54 4LB
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 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Edition: 4.0

IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 5

IEC 60079-26 : 2006 Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

Edition: 2

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/SIR/ExTR10.0228/01](#)

Quality Assessment Report:

[GB/SIR/QAR10.0029/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

An X005 3-Port Galvanic Isolation Amplifier is designed to restrict the transfer of energy, from unspecified safe area equipment to intrinsically safe circuits, by the limitation of voltage and current. The unit comprises a single printed circuit board housed in a plastic enclosure which may be clipped to a DIN rail. Hazardous and safe area connections are made via two sets of two three-way terminal connectors on the top of the unit. The printed circuit board contains isolating transformers, fuses, zener diodes and current limiting resistors together with other electronic components. The circuit connected to the safe area terminals V+ & 0V is designed to operate from a d.c. supply voltage of up to 35V. Outputs O/P+ and O/P- are designed to drive a nominal 0 to 10 Volts or 4 to 20mA load.

Terminal J3:1, J3:3, J4:1 and J4:3
Um = 253 V

Terminals J1:2, J1:3, J2:2, J2:1, J1:1
Uo = 10.66 V
Io = 50.5 mA
Po = 121 mW
Ci = 0
Li = 0

CONDITIONS OF CERTIFICATION: NO



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

Issue 1 – this Issue introduced the following changes:	
1	Issued to allow GB/SIR/ExTR10.0228/01 to replace GB/SIR/ExTR10.0228/00