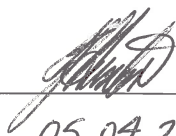




# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEX ITA 12.0005	issue No.:	0	Certificate history:
Status:	Current			
Date of Issue:	2012-04-05	Page 1 of 4		
Applicant:	<b>Positek Ltd</b> L6 The Link Andoversford Industrial Estate, Andoversford Cheltenham GL54 4LB <b>United Kingdom</b>			
Electrical Apparatus: <i>Optional accessory:</i>	<b>An A005 3-Port Galvanic Isolation Amplifier</b>			
Type of Protection:	<b>Intrinsic Safety</b>			
Marking:	<b>[Ex ia]I &amp; [Ex ia] IIC</b>			
Approved for issue on behalf of the IECEx Certification Body:	Ian Hunter			
Position:	Certification Officer			
Signature: (for printed version)				
Date:	<u>05.04.2012</u>			

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:

TUV Rheinland Australia Pty. Ltd  
4 - 6 Second Street  
Bowden SA 5007  
Australia





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Manufacturer: **Positek Ltd**  
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

*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/ExTR10.0228/00](#)

[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 A005 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.

Terminal J3:1, J3:3, J4:1 and J4:3:  
 $U_m = 253 \text{ V}$

The circuit connected to the safe area terminals V+ & 0V is designed to operate from a d.c. supply voltage of up to 35 V. Outputs O/P+ and O/P- are designed to drive a nominal 0 to 10 V or 4 to 20 mA load.

Terminals J1:2, J1:3, J2:2, J2:1, J1:1:  
 $U_o = 10.66 \text{ V}$   
 $I_o = 50.5 \text{ mA}$   
 $P_o = 121 \text{ mW}$   
Ci = Negligible  
Li = Negligible

**CONDITIONS OF CERTIFICATION: NO**



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## Additional information:

Title:	Drawing No.:	Rev. Level:	Date:
POSITEK GALVANIC ISOLATION AMPLIFIER – CASE ARTWORK	A005-12	A	2012/02/21
GALVANIC ISOLATION AMPLIFIER ARTWORK	EX05-57B Sheets 1 to 5	B	2012/03/02
3-Port Galvanic Isolation Barrier ~ Input Power	EX05-59 Sheet 1 of 2	A	2009/11/19
3-Port Galvanic Isolation Barrier ~ Input/Output	EX05-59 Sheet 2 of 2	A	2009/11/19
TR01 Specification	TR01-10 Sheets 1 & 2	C	2010/08/24
TR02 Specification	TR02-10 Sheets 1 & 2	C	2010/08/24
POSITEK GALVANIC ISOLATION AMPLIFIER – CONNECTOR CODING	X005-13	A	2008/11/04
3-port Galvanic Isolation Amplifier	X005-20g Sheets 1 to 6	G	2010/09/16