



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 06.0086U** issue No.: **3**

Status: **Current**

Date of Issue: **2014-05-20** Page 1 of 4

Certificate history:
Issue No. 3 (2014-5-20)
Issue No. 2 (2012-10-9)
Issue No. 1 (2010-7-28)
Issue No. 0 (2006-10-25)

Applicant: **ABTECH Limited**
Sanderson Street
Lower Don Valley
Sheffield S9 2UA
United Kingdom

Electrical Apparatus: **BPG Range of Enclosures**
Optional accessory:

Type of Protection: **Increased safety, intrinsically safe and dust**


Marking: Ex ia IIC Ga Ex e IIC Gb Ex ib IIC Gb
Ex ta IIIC Da IP6X Ex tb IIIC Db IP6X Ex tb IIIC Db IP6X

Approved for issue on behalf of the IECEx Certification Body: C Ellaby

Position: Deputy Certification Manager

Signature:
(for printed version)

Date:



2014-05-20

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

sira
CERTIFICATION



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Manufacturer: **ABTECH Limited**
Sanderson Street
Lower Don Valley
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Additional 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR06.0100/01

GB/SIR/ExTR12.0245/00

GB/SIR/ExTR13.0296/00

Quality Assessment Report:

GB/SIR/QAR06.0046/00
GB/SIR/QAR06.0046/05

GB/SIR/QAR06.0046/01
GB/SIR/QAR06.0046/06

GB/SIR/QAR06.0046/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The BPG range of enclosures are manufactured in various sizes from glass reinforced polyester, with or without anti-static carbon loading. The enclosures consists of a main body and a detachable or hinged lid. Refer to the Annexe of this certificate for a full description.

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	To allow GB/SIR/ExTR06.0100/01 to replace GB/SIR/ExTR06.0100/00
Issue 2 – this Issue introduced the following changes:	
1	The Description was aligned with certificate no. Sira 99ATEX3172U associated with this enclosure, this included recognising the following changes assessed as part of that certificate. * The BPG 13.5 enclosure was added to the range. * The option to fit slotted trunking inside the enclosures, this trunking may be sited as required. The instructions were modified to recognise additional restrictions associated with this change and a new Condition of Manufacture was introduced. * The recognition of minor drawing modifications including the introduction of a new company logo; these amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.
2	Following appropriate re-assessment to demonstrate compliance with the requirements of the latest standards, the documents previously used for assessment were replaced by those currently listed, the markings were updated accordingly. In addition, the enclosure was allowed to be used for intrinsically safe applications and IEC 60079-11:2012 Edition 6 was included in the list of supporting standards.
3	The Description of Component and Condition of Certification were amended to recognise that closed cell polychloroprene gaskets are no longer used.
4	The Condition of Certification and the Special Point for Noting related to static were both removed; in addition, a Schedule of Limitations was added and the Conditions of Certification were rationalised to bring them into line with Sira 99ATEX3172U.
Issue 3 – this Issue introduced the following changes:	
1.	Using IEC 60079-26, the enclosures were allowed to be marked with 'Ex ia' and 'Ex ta' concepts for EPL levels Ga and Da.
2.	The introduction of one or more optional Earth Bars. Each earth bar is manufactured from copper or brass, which may optionally be plated, and are mounted and fixed to at least two welded pillars, welded studs, or internal earth mounting plate (if fitted). Each earth bar is connected to the main internal earth point of the enclosure in which it is fitted. Individual earth connection is made via a threaded entry using a screw and self locking nut, or screw and nut and anti-vibration washer, or locked via the use of thread sealant, and designed to accept a crimped conductor lug. This change necessitated the introduction of new Conditions of Certification.
3.	It was recognised that, when not manufactured with anti-static carbon loading, the BPG range of empty enclosures are not suitable for portable use, therefore the Schedule of Limitations was modified.

Annexe to: IECEx SIR 06.0086U Issue 3
Applicant: ABTECH Limited
Apparatus: BPG Range of Enclosures



Description of Equipment

The BPG range of enclosures are manufactured from polyester in the following sizes:

BPG Reference	Length (mm)	Width (mm)	Height (mm)
1	80	75	55
2	110	75	55
3	160	75	55
4	190	75	55
5	230	75	55
6	122	120	90
7	220	120	90
8	160	160	90
9	260	160	90
10	360	160	90
11	560	160	90
12	255	250	120
13	400	250	120
13.5	400	250	160
14	600	250	120
15	400	405	120

The enclosures may also be manufactured to sizes not specified in the table. This assumes that any given dimension is not larger than the respective dimension of the largest enclosure or smaller than the respective dimension of the smallest enclosure. The enclosure lids may be hinged or detachable and are retained captive screws. All boxes are fitted with closed cell silicone rubber gaskets. Entries may be provided either through the side walls or the rear of the box and external and internal earthing facilities are provided.

Schedule of Limitations

The user/installer shall comply with the following:

- 1 The Enclosures shall not be used outside the ambient temperature range -65°C to +90°C.
- 2 BPG enclosures that are not manufactured with anti-static carbon loading and marked with an anti static warning, shall only be used for fixed installation.

Conditions of Manufacture

The manufacturer shall comply with the following:

- 1 If the Enclosures are supplied with blanking plugs, reducers, adapters and breather drains, then the manufacturer shall ensure that:
 - The device does not adversely affect the minimum IP rating of the enclosure.
 - There are no special conditions of for safe use (conditions of certification) associated with the device that will impinge upon the use and installation of the Enclosure, e.g. "These components shall not be used for applications where there is a 'high' risk of mechanical damage".
 - The coding reflects the "worst case" item fitted.
- 2 The manufacturer shall take all reasonable steps to ensure that the following items used in the construction of the Enclosure are used within the minimum and maximum service temperature stated in the condition for safe use, in addition, the manufacturer shall provide the user/installer with a copy of the certificate associated with any blanking plugs, reducers, adapters and breather drains:

Item: Solid silicone rubber gasket
Blanking plugs, reducers, adapters and breather drains
- 3 When trunking is fitted, it may be sited as required and the minimum creepage and clearance distances shall still be met.

Date: 16 May 2014

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Sira Certification Service

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Form 9530 Issue 1

Annexe to: IECEx SIR 06.0086U Issue 3
Applicant: ABTECH Limited
Apparatus: BPG Range of Enclosures



- 4 When the optional earth bar is fitted it shall allow for a size of conductor connection in accordance with Clause 15.3 of IEC 60079-0.
- 5 When an individual earth connection to the earth bar is secured via thread sealant alone it shall be ensured that the thread sealant used has a suitable temperature range to account for the lowest ambient temperature and at least the T-class applied.
- 6 The earth bar connection screws, nuts and washers shall not be constructed of light metals.

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