



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 99ATEX3173X** Issue: **12**

4 Equipment: **BPG Range of Junction Boxes**

5 Applicant: **ABTECH Limited**

6 Address: Sanderson Street  
Lower Don Valley  
Sheffield S9 2UA  
UK

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., Notified Body Number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012 EN 60079-7:2007 EN 60079-11:2012 EN 60079-26:2007 EN 60079-31:2009

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2 GD

Ex e IIC T6 Gb (Ta = -65°C to +#°C)  
Ex e IIC T5 Gb (Ta = -65°C to +#°C)  
Ex e IIC T4 Gb (Ta = -65°C to +#°C)  
Ex ib IIC T6 Gb (Ta = -65°C to +#°C)  
Ex ib IIC T5 Gb (Ta = -65°C to +#°C)  
Ex ib IIC T4 Gb (Ta = -65°C to +#°C)  
Ex tb IIIC T85°C Db (Ta = -65°C to +#°C)  
Ex tb IIIC T100°C Db (Ta = -65°C to +#°C)

or



II 1 GD

Ex ia IIC T6 Ga (Ta = -65°C to +#°C)  
Ex ia IIC T5 Ga (Ta = -65°C to +#°C)  
Ex ia IIC T4 Ga (Ta = -65°C to +#°C)  
Ex ta IIIC T85°C Da (Ta = -65°C to +#°C)  
Ex ta IIIC T100°C Da (Ta = -65°C to +#°C)

Project Number 1839

Signed: 

Title: Director of Operations

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**CSA Group Netherlands B.V.**  
Utrechtseweg 310,  
6812 AR, Arnhem,  
Netherlands



**SCHEDULE**

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Issue 12**

**13 DESCRIPTION OF EQUIPMENT**

The BPG range of junction boxes utilises a BPG enclosure covered by certificate number Sira 99ATEX3172U and are fitted with an arrangement of suitably certified terminals.

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

(All dimensions are in mm)

Before the Junction Box is installed, its total dissipated power for the particular application will be calculated in accordance with EN 60079-7:2003, Annex E, E.2 and will not exceed the values given in the tables below (Junction boxes of size not specified in the tables may be manufactured subject to the maximum dissipated power being based on a smaller enclosure):

EPL Ga Gb Db						
BPG ref.	Maximum Power Dissipation (W)					
	T6/T85°C Ta +40°C (max)	T6/T85°C Ta +55°C (max)	T6/T85°C Ta +60°C (max)	T6/T85°C Ta +65°C (max)	T5/T100°C Ta +55°C (max)	T4/T100°C Ta +90°C (max)
1	8.390	2.23	1.73	1.45	8.390	8.390
2	8.551	2.00	1.70	1.45	8.551	8.551
3	8.833	2.00	1.70	1.45	8.833	8.833
4	9.012	2.07	1.80	1.29	9.012	9.012
5	9.260	2.00	1.70	1.10	9.260	9.260
6	9.378	2.00	1.70	1.45	9.378	9.378
7	10.500	2.30	1.70	1.10	10.500	10.500
8	10.348	2.00	1.70	1.10	10.348	10.348
9	11.933	2.30	1.70	1.10	11.933	11.933
10	13.793	4.50	3.29	2.10	13.793	13.793
11	18.338	6.68	5.20	4.00	18.338	18.338
12	15.474	2.30	1.70	1.10	15.474	15.474
13	20.867	5.20	4.00	3.00	20.867	20.867
13.5	20.867	5.20	4.00	3.00	20.867	20.867
14	30.384	7.97	6.59	4.79	30.384	30.384
15	31.350	8.26	6.00	4.40	31.350	31.350



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EPL Da						
BPG ref.	Maximum Power Dissipation (W)					
	T6/T85°C Ta +40°C (max)	T6/T85°C Ta +55°C (max)	T6/T85°C Ta +60°C (max)	T6/T85°C Ta +65°C (max)	T5/T100°C Ta +55°C (max)	T4/T100°C Ta +90°C (max)
1	4.195	1.115	0.865	0.725	4.195	4.195
2	4.2755	1	0.85	0.725	4.2755	4.2755
3	4.4165	1	0.85	0.725	4.4165	4.4165
4	4.506	1.035	0.9	0.645	4.506	4.506
5	4.63	1	0.85	0.55	4.63	4.63
6	4.689	1	0.85	0.725	4.689	4.689
7	5.25	1.15	0.85	0.55	5.25	5.25
8	5.174	1	0.85	0.55	5.174	5.174
9	5.9665	1.15	0.85	0.55	5.9665	5.9665
10	6.8965	2.25	1.645	1.05	6.8965	6.8965
11	9.169	3.34	2.6	2	9.169	9.169
12	7.737	1.15	0.85	0.55	7.737	7.737
13	10.4335	2.6	2	1.5	10.4335	10.4335
13.5	10.4335	2.6	2	1.5	10.4335	10.4335
14	15.192	3.985	3.295	2.395	15.192	15.192
15	15.675	4.13	3	2.2	15.675	15.675

**Variation 1** - This variation introduced the following changes:

- i. The BPG range of junction boxes were permitted to have alternative power dissipation ratings that enable them to be used in an upper ambient temperature of either +40°C or +55°C or +60°C or +65°C, the associated ratings and markings were recognised.

**Variation 2** - This variation introduced the following changes:

- i. The recognition of a minor revision of the information marked on the label.

**Variation 3** - This variation introduced the following changes:

- i. When certified, intrinsically safe terminals are used, alternative marking, 'ia' and 'ib', was recognised.

**Variation 4** - This variation introduced the following changes:

- i. The BPG 13.5 junction box covered by certificate number Sira 99ATEX3172U was added to the range.

**Variation 5** - This variation introduced the following changes:

- i. The option to fit slotted trunking inside the Junction Boxes, 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.
- ii. 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.

**Variation 6** - This variation introduced the following changes:



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- i. Following appropriate re-assessment to demonstrate compliance with the requirements of the EN 60079 series of standards, the documents previously listed in section 9, EN 50 014:1997 (amendments A1 to A2), EN 50 019:1994, EN 50020:2002 and EN 50281-1-1:1998, were replaced by those currently listed. As part of this change, the markings in section 12 were updated accordingly and the 'ia' marking previously included as Variation 1 (dated 30 March 2005) was removed.
- ii. The Condition of Certification that defined the ambient temperature range of specific types of gaskets was removed because only silicone rubber gaskets are now used in the construction of these Junction Boxes.
- iii. It was recognised that a new procedure for selecting terminals has been adopted by the manufacturer; this allows the terminals to be chosen from an Approved Component Document, Sira 12AC087, that is issued and controlled by Sira. The relevant Condition of Certification was amended to recognise this change.
- iv. The recognition of drawing modifications required for use with other certification associated with these products.
- v. The Condition of Certification dealing with power dissipation was modified.
- vi. A Condition of Certification that requires the manufacturer to monitor the status of previously certified devices was added.

**Variation 7** - This variation introduced the following changes:

#### R30711A/00

- i. Using EN 60079-26, the junction boxes were allowed to be marked with 'Ex ia' and 'Ex ta' concepts for EPL levels Ga and Da, as a result of this change, the maximum power dissipation table was modified and a Special Condition for Safe Use was introduced necessitating the addition of an 'X' suffix to the certificate number.
- ii. IEC 60079-0:2011 was replaced by EN 60079-0:2012 in the list of standards.

#### R32242A/00

- i. The BPG range of junction boxes were allowed to be used in an upper ambient +55°C with a temperature class/surface temperature of T5/T100°C, the associated maximum power dissipation ratings (W) and markings were recognised.

**Variation 8** - This variation introduced the following changes:

- i. To permit the replacement of the term 'ceramic' with 'the terminals shall have an insulation limiting temperature of 130°C minimum' in the Condition of Manufacture, when the junction boxes are marked for T4/100°C.

## 14 DESCRIPTIVE DOCUMENTS

### 14.1 Drawings

Refer to Certificate Annexe.

### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report/File no.	Comment
0	19 January 2000	R51X6055E	The release of the prime certificate.
1	25 May 2001	R51A6746A	The introduction of Variation 1.
2	28 September 2001	53V7936	The introduction of Variation 2.



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Issue	Date	Report/File no.	Comment
3	23 July 2002	R53A9009A	The prime certificate was re-issued to permit the following: <ul style="list-style-type: none"><li>• The incorporation of previous variations 1 and 2.</li><li>• The lower ambient temperature range was confirmed as –65°C.</li><li>• The introduction of the changes included in Sira report number R53A9009A.</li></ul>
4	30 March 2005	R53V10438A	The introduction of Variation 3.
5	10 March 2008	R51A17881A	This Issue covers the following changes: <ul style="list-style-type: none"><li>• All previously issued certification was rationalised into a single certificate, Issue 5, Issues 0 to 4 referenced above are only intended to reflect the history of the previous certification and have not been issued as documents in this format.</li><li>• The change of the Applicant's name, first recognised 31 January 2007, was re-confirmed.</li><li>• The introduction of Variation 4.</li></ul>
6	03 April 2012	R26585A/00	The introduction of Variation 5.
7	11 June 2012	R26585A/01	Report R26585A/01 replaced report R26585A/00.
8	24 October 2012	R25164A/00	This Issue covers the following changes: <ul style="list-style-type: none"><li>• The introduction of Variation 6.</li><li>• Because this certificate was re-issued, some Variations 1 and 2 were duplicated, this has been clarified and reflected in the certificate history; no technical changes were involved.</li></ul>
9	07 April 2014	R30711A/00 R32242A/00	The introduction of Variation 7.
10	08 July 2014	R70004712A	The introduction of Variation 8.
11	30 July 2014	N/A	Issued to correct a typographical error.
12	15th October 2019	1839	<ul style="list-style-type: none"><li>• Transfer of certificate from <b>Sira 99ATEX3173X</b> Sira Certification Service to CSA Group Netherlands B.V..</li><li>• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i></li></ul>

15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

15.1 When used in an EPL ta (Da) application the power supply to the equipment is to be rated for a prospective short circuit current of not more than 10 kA.

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

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The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

# Certificate Annexe



**Certificate Number:** Sira 99ATEX3173X  
**Equipment:** BPG Range of Junction Boxes  
**Applicant:** ABTECH Limited

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**Issue 0 to 2:** The drawings associated with these Issues were rationalised by those listed in Issue 3.

## Issue 3

Number	Sheet	Rev.	Date	Description
ABT 10260	1 of 1	C	25 Jun 02	External Label (BPG)
ABT 10304	1 of 1	A	16 Nov 99	BPG Manufacturing Specification

## Issue 4

Number	Sheet	Rev.	Date	Description
ABT 14842	1 of 1	-	01 Feb 05	BPG Range EEx ia Label
ABT 14845	1 of 1	-	01 Feb 05	BPG Range EEx ib Label

**Issue 5:** No new drawings were introduced.

## Issue 6

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
ABT 10260	1 of 1	D	30 Mar 12	BPG External label – Junction Boxes
ABT 10304	1 of 1	B	30 Mar 12	BPG Manufacturing specification
ABT 14842	1 of 1	B	30 Mar 12	BPG Range EEx ia Label
ABT 14845	1 of 1	B	30 Mar 12	BPG Range EEx ib Label

**Issue 7** (No new drawings were introduced.)

## Issue 8

Drawing	Sheets	Rev.	Date (Sira Stamp)	Title
ABT 10260	1 of 1	E	30 Sep 12	BPG Nameplate – Junction Box
ABT 10304	1 of 1	C	30 Sep 12	BPG Manufacturing specification
ABT 10305	1 of 1	C	30 Sep 12	BPG Range of Enclosures

## Issue 9

### R30711A/00

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
ABT10260	1 of 1	F	30 Oct 13	BPG Range Ex e Label
ABT14842	1 of 1	C	10 Oct 13	BPG Range Ex ia Label

### R32242A/00

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
ABT26528	1 of 1	A	19 Dec 13	External ATEX Label (BPG)
ABT16689	1 of 1	C	19 Dec 13	BPG Manufacturing Spec

**Issues 10 and 11** (No new drawings were introduced.)

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