

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Abtech Ltd
Address	Newhall Road, Sheffield, S9 2QJ, United Kingdom
Type	Enclosure Systems
Description	BPG, SX, and ZAG series types of Enclosures and Junction boxes for safe and hazardous areas
Trade Name	BPG, SX, and ZAG
Application	Marine, offshore, and industrial use
Specified Standard	Manufacturer's specification IEC60079-0: 2018, IEC60079-7: 2015, IEC60079-11: 2012 IEC60079-26: 2007, IEC60079-31: 2014
Ratings	Details see certificate appendix
Other Conditions	<i>Special conditions for safe use, as indicated in the individual EX certificates, shall be complied with during application.</i>

12th Floor, Chong Hing Finance Centre, No. 288
Nanjing West Road, Shanghai, Huangpu District,
200003, China

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Lead Specialist to Lloyd's Register
Classification Society (China) Co Ltd
A member of the Lloyd's Register group

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Type Approval Certificate

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Classification Society (China) Co Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR22120789TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

RATINGS

BPG Range of and Enclosures:

II 1 GD	or	II 2 GD	or	II 2 GD
Ex ia II C Ga		Ex eb IIC Gb		Ex ib IIC Gb
Ex ta IIIC Da		Ex tb IIIC Db		Ex tb IIIC Db
$T_s = -65\text{ }^\circ\text{C} \leq T_s \leq 90\text{ }^\circ\text{C}$		$T_s = -65\text{ }^\circ\text{C} \leq T_s \leq 90\text{ }^\circ\text{C}$		$T_s = -65\text{ }^\circ\text{C} \leq T_s \leq 90\text{ }^\circ\text{C}$

Ex Certificate No.: CML 20ATEX3008U, issue: 0

BPG Range of Junction Boxes:

II 1 GD	or	II 2 GD	or	II 2 GD
Ex ia II C T Ga		Ex eb II C T Gb		Ex ib II C T6/T5/T4 Gb
Ex ta IIIC T C Da		Ex tb IIIC T C Db		Ex tb IIIC T C Db
$T_a = -65\text{ }^\circ\text{C} \leq T_a \leq 90\text{ }^\circ\text{C}$		$T_a = -65\text{ }^\circ\text{C} \leq T_a \leq 90\text{ }^\circ\text{C}$		$T_a = -65\text{ }^\circ\text{C} \leq T_a \leq 90\text{ }^\circ\text{C}$

Ex Certificate No.: CML20ATEX3009X, issue:0

SX Range of Enclosures:

SX Ref. : SX0, SX0.5, SX1, SX1.5, SX2, SX3, SX4, SX5, SX6, SX7, SX8, SX225, SX45, SX64, SX66

Group and category: II 2 GD

II 1 GD	II 2 GD
Ex ia IIB/IIC Ga	Ex eb IIB/IIC Gb
Ex ta IIIC Da	Ex ib IIB/IIC Gb
	Ex tb IIIC Gb

Ex Certificate No.: CML 15ATEX3078U, issue: 4

SX Range of junction boxes :

SX Ref. : SX0, SX0.5, SX1, SX1.5, SX2, SX3, SX4, SX5, SX6, SX7, SX8, SX225, SX45, SX64, SX66

EPL: Ga, Gb, Db, Da

II 1 GD	II 2 GD	II 2 GD
Ex ia IIB/IIC T# Ga	Ex eb IIB/IIC T# Gb	Ex eb op pr IIB/IIC T# Gb
Ex ia op is IIB/IIC T# Ga	Ex ib IIB/IIC T# Gb	Ex ib op pr IIB/IIC T# Gb
Ex op is IIB/IIC T# Ga	Ex eb op is IIB/IIC T# Gb	Ex ia op pr IIB/IIC T# Gb
Ex ta IIIC T#°C Da	Ex ib op is IIB/IIC T# Gb	Ex op pr IIB/IIC T# Gb
Ta= - #°C to +#°C	Ex tb IIIC T#°C Db	Ex tb IIIC T#°C Db
	Ta= - #°C to +#°C	Ta= - #°C to +#°C

Ex Certificate No.: CML 14ATEX3123X, issue: 7

ZAG Range of Enclosures:

II 1 GD	or	II 2 GD	or	II2 GD
Ex ia II C Ga		Ex eb IIC Gb		Ex ib IIC Gb
Ex ta IIIC Da IP6X		Ex tb IIIC Db IP6X		Ex tb IIIC Db IP6X
Ts = -65°C to +180°C or -60°C to +90°C		Ts = -65°C to +180°C or -60°C to +90°C		Ts = -65°C to +180°C or -60°C to +90°C

ZAG Reference: 2, 3, 4, 5, 6, 7, 8, 9, 9/9, 10, 10/9, 11, 12, 13, 14, 15, 16

Ex Certificate No.: CML21ATEX3136U, issue:0

ZAG Range of junction boxes:

II 1 GD	or	II 2 GD	or	II2 GD
Ex ia IIC T ₁ Ga		Ex eb IIC T ₁ Gb		Ex ib IIC T ₁ Gb
Ex ta IIIC T ₂ Da IP6X		Ex tb IIIC T ₂ Db IP6X		Ex tb IIIC T ₂ Db IP6X

ZAG Box Ref.: 2, 3, 4, 5, 6, 7, 9, 10, 10/9, 11, 12, 13, 15, 16; EPL: Ga Gb Db

Ex Certificate No.: CML21ATEX3113X, issue:0