## Installation, Operation, Maintenance: BPG RANGE (COMPONENT)





Certifi	Certification Details				
ATEX:	ABTECH Ltd.	∕€x)II 2 GD	CML 20ATEX3008U		
	ABTECH Ltd.		CML 21UKEX3678U		
IECEx:	ABTECH Ltd.	Ex eb IIC Gb	IECEx CML 20.0002U		
			H		
		2776 SHEFFIELD S9 2QJ ENGLA	ik 2503 WD		



### Marking

The marking shown is for a component certified enclosure and will be found on the inside of the enclosure. *The user must submit the completed unit for type examination if it is to be used in a hazardous area.* 

The ambient temperature range for which this product is suitable extends from -65°C to +90°C.

### The marking:

Ex eb IIC GbEx tb IIIC Dbmay be replaced byEx ib IIC GbEx tb IIIC DborEx ia IIC GaEx ta IIIC Da.For Ex ia the ATEX marking "II 1 G D" will apply

Enclosures marked Ex ia or Ex ib may only be used for terminating intrinsically safe circuits.

### When the box is black it is anti-static and the 'STATIC HAZARD' warning may be omitted.

#### Installation

These instructions assume that the required cable entries have been pre-drilled. Cable entries may be threaded. All cable entry devices must be appropriately certified to the latest standards and match the certification of the box. i.e. ATEX certified devices are required for ATEX certified enclosures and IECEx certified devices are required for IECEx certified enclosures. If trunking is fitted, non-metallic slotted trunking may be used for T6 rated applications. If the box is rated other than T6 then metallic slotted trunking must be used.

- Using the mounting dimensions data provided, either in the product catalogue data sheets or on the drawings supplied, (as part of the project documentation), mark out the positions for the mounting holes on the surface where installation is required.
- 2) Drill the mounting holes for M4 fixing studs (for size BPG1 to BPG5) or for M6 fixing studs (for size BPG6 to BPG15) as applicable.
- 3) Tap thread into mounting holes if required.

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- Place a mounting screw through one mounting hole in the box so that the thread of the screw protrudes from 4) the back of the box. Lift the enclosure into position using such assistance as may be necessary to avoid injury and:
  - a) If clearance mounting holes are used, insert the protruding thread through the appropriate clearance hole and secure with a nut on the other side of the mounting surface.

Or

- b) If threaded holes are used, locate the end of the mounting screw over the thread hole and, using an ap propriate screwdriver tighten the screw.
- 5) Rotate the box to line up the remaining mountings and repeat (4) above until all mounting screws have been fitted.
- Where slotted trunking has been supplied (solid trunking is not permitted) ensure that it is suitable for the 6) proposed service temperature of the enclosure. Trunking may be mounted in any orientation in the box, vertically, horizontally or diagonally.
- 7) Secure the lid by closing the lid and tightening the lid fixing screws to a torque of 1.5Nm minimum, 2.0Nm maximum.

## Earthing/Grounding

The enclosure may be provided with an external earth/ground connection. If such a connection is provided it must be connected to the appropriate earth bonding circuit before electrical power is connected to the contents of the enclosure.

### Operation

- The lid must be secured using all of the lid screws provided in order to maintain the IP rating. 1.
- No attempt must be made to remove the enclosure lid whilst electrical power is connected to the contents of 2. the enclosure.
- If the enclosure if fitted with an external earth/ground facility it must be connected to the earth bonding circuit 3. at all times when power is connected to the enclosure contents.

### Maintenance

Routine maintenance is likely to be a requirement of local Health and Safety legislation. The laws of the applicable country must be considered, and maintenance checks carried out accordingly.

Additional checks that are advisable to ensure the efficiency of ABTECH BPG range enclosures are: -

Act	ivity	Frequency
1	Check that the lid seal is not damaged and is in place	Each time the enclosure is opened
2	Check that all lid fixing screws are in place and secured	Each time the enclosure is opened
3	Check that the mounting bolts are tight and free of corrosion	Annually
4	Check the security of all cable glands	Annually
5	Check the enclosure for damage	Annually

## Chemical attack

The ABTECH BPG range of enclosures are manufactured using the following materials: -

- Glass Reinforced Polyester resin (with or without carbon loading) •
- Polychloroprene or Silicone Rubber ٠
- 316 Stainless Steel •
- Brass •

Consideration should be given to the environment in which these enclosures are to be used to determine the suitability of these materials to withstand any corrosive agents that may be present.

## **Static Hazard**

Glass reinforced polyester resin has a surface resistance greater than 10E9 Ohms. They can present a hazard from static electricity. CLEAN ONLY WITH A DAMP CLOTH. These boxes may not be used for portable equipment.

Carbon loaded glass reinforced polyester, coloured black and identified by the suffix 'C', (e.g. BPGC9), have a surface resistance between 10E6 and 10E9 Ohms. They do not present a hazard from static electricity and these boxes may be used for portable equipment.





