

GRN Enclosures

The ABTECH GRN8 enclosure has been designed as a cost-effective junction box for use in hazardous areas. There are a number of terminal and entry configurations available, resulting in a highly versatile enclosure which is suitable for a wide variety of installations. The enclosure is manufactured in a UL approved UV stabilised polycarbonate and is available as a pre-assembled terminal box or as an empty enclosure for OEM applications.

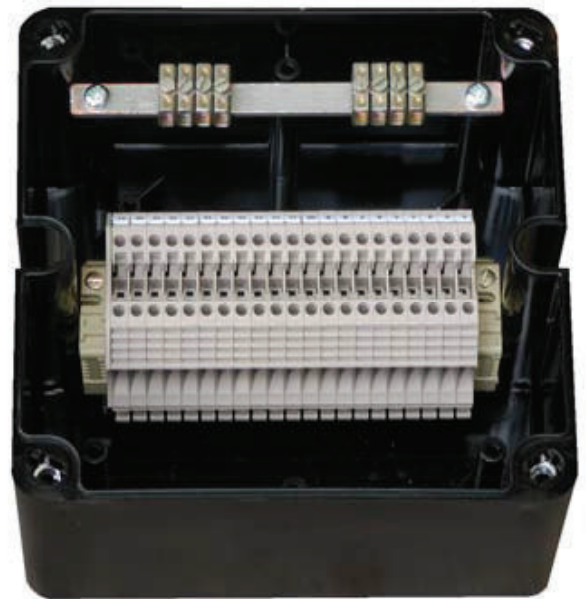


It can be supplied with the option of a terminal rail, an internal chassis plate or directly mounted terminals for cables up to 4 sq mm.

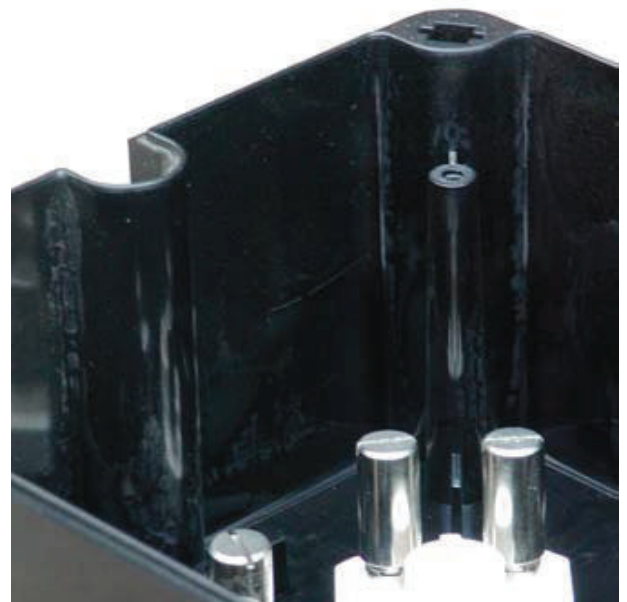
The GRN8 is a competitive product for lower risk applications in both safe and hazardous areas. It is designed to operate within the ambient temperature range of - 20°C to + 40°C (-4°F to 104°F) but for non hazardous application the upper ambient temperature range can be extended to 120°C (248°F). As well as being UV stable, polycarbonate is resistant to a wide variety of chemicals. The use of silicone rubber lid gasket and 316 stainless steel lid fixings ensures that the chemical resistance of the GRN8 is not compromised.

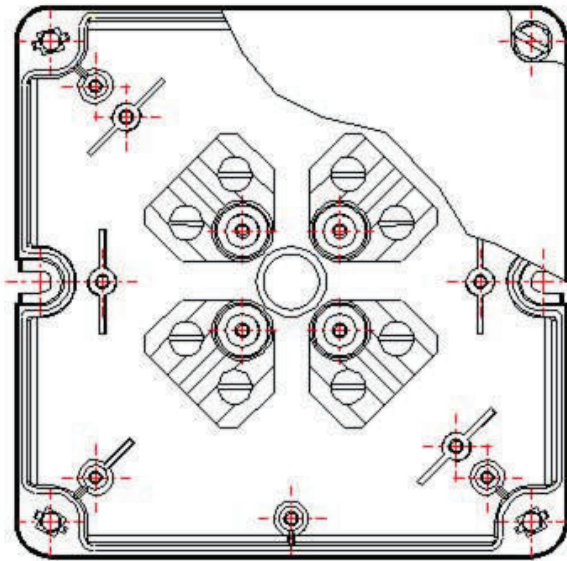
Earthing can be accomplished by various means. The provision of an internal/external earth/ground stud is optional or one of the terminals can be dedicated to earthing / grounding functions.

Additionally, there is the facility to mount an earth bar inside the box which can be used to terminate and connect as many earthing wires as there are cable entries. This method is useful for the equi-potential bonding of metal cable glands and an additional equi-potential wire can be linked to the internal/external earth stud to facilitate a positive connection to the 'plant dirty' earthing system. The earth bar can alternatively be used as a clean earth for instrumentation as it can be electrically isolated from the dirty earth.



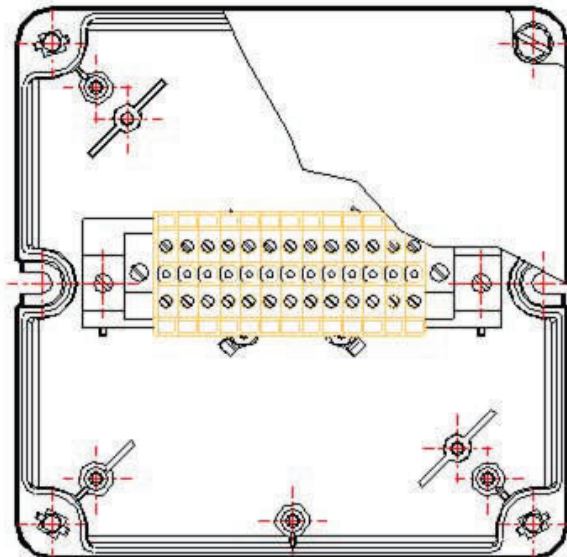
The GRN8 is ATEX certified for use in Zone 1 hazardous areas EEx'e' to BS EN 50019:2000 for Zone 1 and Zone 2 applications, BS EN 50281-1 for Zone 21 and Zone 22 applications and EEx'nA' to BS EN 50021 for Zone 2 applications.





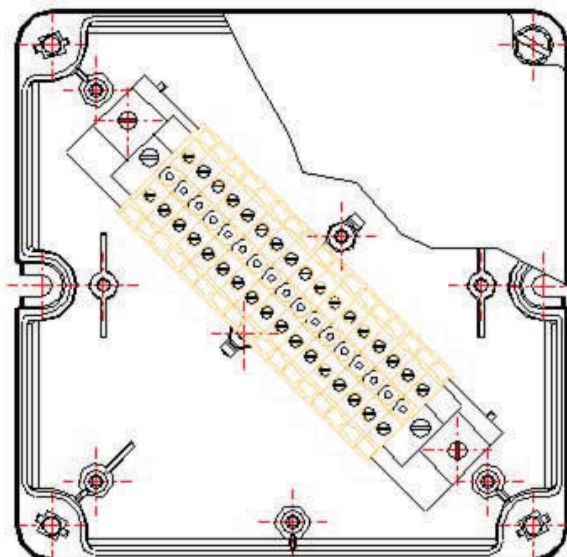
GRN8-1

Up to 8 post / mantle type EEx'e' terminals
(up to 2 x 4mm² conductors per terminal)
Star configuration



GRN8-2

Up to 13 screw/clamp type EEx'e' terminals
(for conductors up to 2.5mm²)
See table on page 200 for other terminal
types
Horizontal / Vertical configuration



GRN8-3

Up to 17 screw/clamp type EEx'e' terminals
(for conductors up to 2.5mm²)
See table on page 200 for other terminal
types
Diagonal configuration

GRN8 Range

Polycarbonate Junction Boxes

IP65

Other Products

Application

Industrial and Hazardous areas

Protection Degree

IP65

Certification

ATEX EEx e T6 (Zone 1 & Zone 2) to BS EN 50019
ATEX EEx e T85°C (Zone 1 & Zone 2) to BS EN 50281-1-1

Material

Moulded Polycarbonate (Black)

Temperature Rating

Standard: -40° to 80° C (-40° to 176° F)
Option: -40° to 120° C (-48° to 248° F)
ATEX Certified Version
-20° to 40° C (-4°F to 104°F)

Power Rating

10.0W



Terminal Populations (Maximum Number of Rails = 1)

Weidmuller	
BK4 (4 way)	3
BK6 (6 way)	2
BK12 (12 way)	1
MK 6/4	2
MK 6/6	1
SAK 2.5	17
SAK 4	17
SAK 6N	14
SAK 10	11
SAK 16	9
SAK 35	5
WDU 2.5	20
WDU 4	17
WDU 6	14
WDU 10	11
WDU 16	9

Entrelec	
MA2.5/5	21
M4/6	17
M6/8	14
M10/10	11
M16/12	9
M35/16	6

Phoenix	
G5\4 (4 way)	3
G5\6 (6 way)	2
G5\12 (12 way)	1
UK 3N	21
UK 5N	17
UK 10N	11
UK 16N	9
UK 35N	7

Drilling Envelope Dimensions (mm)

	Side A - C	Side B - D
Width	54 (x2)	48 (x2)
Height	75	75

Gland Entry Matrix *

Size	Side A - C	Side B - D
M16	4	4
M20	4	4
M25	2	2
M32	0	2
M40	0	0

* Using standard gland clearances

Specifications

Part Number	Material	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
GRN8-1	Moulded Polycarbonate	160	160	90	500
GRN8-2	Moulded Polycarbonate	160	160	90	500
GRN8-3	Moulded Polycarbonate	160	160	90	500

