

# Fibox ARCA Polycarbonate Enclosures

Make difficult easy with the next evolution in strong, corrosion proof enclosures.

ENCLOSURES AND CLIMATE CONTROL



## Fibox ARCA enclosures for use in harsh and demanding environments



### Robust design

- IP66 ingress protection for peace of mind in wet and dusty environments
- High impact resistance rating of IK10
- Excellent protection against vandalism
- Patented strong hinge design to withstand regular door opening to 120° and the fitting of door mounted components
- Compatible with the majority of NHP's existing standard enclosure locking options to ensure a secure solution for every application

### Innovative features

- Patented lockable inner door – no tools required for mounting
- Patented easy to use DIN-rail frame set design – no special tools required, easy and quick mounting
- Mounting pods on the base, cover and four base sides
- Variable depth option for internal mounting plates
- Strength of steel without the weight
- Cable glands can be screwed directly into ARCA wall (no need for the gland nut), saving time and providing more position flexibility
- ARCA carton has wall mounting/drilling template inside, saving valuable installation time
- ARCA packing carton is deliberately oversized so that an ARCA with glands already fitted can be put back into the carton, saving packing time and carton waste

### Ordering information - Enclosures

Enclosure dimensions (mm)			Weight (kg)	Mounting plate W (mm)	Mounting plate H (mm)	Max usable depth (mm)	No. of door locks	DIN frame rows x modules	Catalogue No.
H	W	D							
200	300	150	2.4	250	150	136	1	1 x 11	<b>ARCA203015</b>
300	200	150	2.4	150	250	136	1	1 x 5	<b>ARCA302015</b>
300	400	150	4.2	350	250	136	2	1 x 16	<b>ARCA304015</b>
300	400	210	4.8	350	250	196	2	1 x 16	<b>ARCA304021</b>
400	300	150	4.2	250	350	136	2	2 x 10	<b>ARCA403015</b>
400	300	210	4.8	250	350	196	2	2 x 10	<b>ARCA403021</b>
400	500	210	7.05	450	350	196	2	2 x 22	<b>ARCA405021</b>
500	400	210	7.05	350	450	196	2	3 x 16	<b>ARCA504021</b>
400	600	210	8.4	550	350	196	2	2 x 27	<b>ARCA406021</b>
600	400	210	8.4	350	550	196	2	3 x 16	<b>ARCA604021</b>
500	700	300	14.4	630	430	285	2	3 x 32	<b>ARCA507030</b>
700	500	300	14.4	430	630	285	2	4 x 21	<b>ARCA705030</b>
600	800	300	18.85	730	530	285	2	3 x 38	<b>ARCA608030</b>
800	600	300	18.85	530	730	285	2	4 x 27	<b>ARCA806030</b>

### Ordering information - Accessories

Mounting plate, insulated/ galvanised steel*	Inner door*	DIN rail frame set*	Wall mount brackets*	Depth adjustment kit*	Pole mount kit*	Door stop*	Rain canopy*	Enclosure Catalogue No.
MPSARCA3020P MPSARCA3020	IDSARCA2030	DRSARCA203015	WMKARCAxx, WMKQxxx	CBSARCA15	PMKARCA30	DSPARCAVRS	RCSARCA2030	ARCA203015
MPSARCA3020P MPSARCA3020	IDSARCA3020	DRSARCA301015	WMKARCAxx, WMKQxxx	CBSARCA15	PMKARCA20	DSPARCAVRS	RCSARCA20P	ARCA302015
MPSARCA4030P MPSARCA4030	IDSARCA3040	DRSARCA304015	WMKARCAxx, WMKQxxx	CBSARCA15	PMKARCA40	DSPARCAVRS	RCSARCA3040	ARCA304015
MPSARCA4030P MPSARCA4030	IDSARCA3040	DRSARCA304021	WMKARCAxx, WMKQxxx	CBSARCA21	PMKARCA40	DSPARCAVRS	RCSARCA3040	ARCA304021
MPSARCA4030P MPSARCA4030	IDSARCA4030	DRSARCA403015	WMKARCAxx, WMKQxxx	CBSARCA15	PMKARCA30	DSPARCAVRS	RCSARCA30P	ARCA403015
MPSARCA4030P MPSARCA4030	IDSARCA4030	DRSARCA403021	WMKARCAxx, WMKQxxx	CBSARCA21	PMKARCA30	DSPARCAVRS	RCSARCA30P	ARCA403021
MPSARCA5040P MPSARCA5040	IDSARCA4050	DRSARCA405021	WMKARCAxx, WMKQxxx	CBSARCA21	PMKARCA50	DSPARCAVRS	RCSARCA4050	ARCA405021
MPSARCA5040P MPSARCA5040	IDSARCA5040	DRSARCA504021	WMKARCAxx, WMKQxxx	CBSARCA21	PMKARCA40	DSPARCAVRS	RCSARCA40P	ARCA504021
MPSARCA6040P MPSARCA6040	IDSARCA4060	DRSARCA406021	WMKARCAxx, WMKQxxx	CBSARCA21	PMKARCA60	DSPARCAVRS	RCSARCA60P	ARCA406021
MPSARCA6040P MPSARCA6040	IDSARCA6040	DRSARCA604021	WMKARCAxx, WMKQxxx	CBSARCA21	PMKARCA40	DSPARCAVRS	RCSARCA40P	ARCA604021
MPSARCA7050P MPSARCA7050	IDSARCA5070	DRSARCA507030	WMKARCAxx, WMKQxxx	CBSARCA30	-	DSPARCAVRS	RCSARCA5070	ARCA507030
MPSARCA7050P MPSARCA7050	IDSARCA7050	DRSARCA705030	WMKARCAxx, WMKQxxx	CBSARCA30	PMKARCA50	DSPARCARM	RCSARCA50P	ARCA705030
MPSARCA8060P MPSARCA8060	IDSARCA6080	DRSARCA608030	WMKARCAxx, WMKQxxx	CBSARCA30	-	DSPARCAVRS	RCSARCA6080	ARCA608030
MPSARCA8060P MPSARCA8060	IDSARCA8060	DRSARCA806030	WMKARCAxx, WMKQxxx	CBSARCA30	PMKARCA60	DSPARCARM	RCSARCA60P	ARCA806030

Note: All accessories must be ordered separately



Mounting plate



Inner door



Depth adjustment kit



DIN rail frame set



Pole mount kit



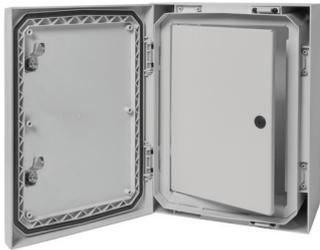
Wall mount bracket



Rain canopy

## Accessories

### Inner door, IDSARCAxxxx



**Description** IDSARCA inner doors provide additional protection to installed equipment, as well as providing a convenient mounting location for push buttons, indicator lights and display modules that need to be protected from UV and weather exposure as well as unauthorised access. Fast and easy installation requires no tools and thus saves considerable time.

**Ordering information**

**IDSARCA2030** – inner door H200 x W300mm, suits ARCA203015  
**IDSARCA3020** – inner door H300 x W200mm, suits ARCA302015  
**IDSARCA3040** – inner door H300 x W400mm, suits ARCA304015, ARCA304021  
**IDSARCA4030** – inner door H400 x W300mm, suits ARCA403015, ARCA403021  
**IDSARCA4050** – inner door H400 x W500mm, suits ARCA405021  
**IDSARCA5040** – inner door H500 x W400mm, suits ARCA504021  
**IDSARCA4060** – inner door H400 x W600mm, suits ARCA406021  
**IDSARCA6040** – inner door H600 x W400mm, suits ARCA604021  
**IDSARCA5070** – inner door H500 x W700mm, suits ARCA507030  
**IDSARCA7050** – inner door H700 x W500mm, suits ARCA705030  
**IDSARCA6080** – inner door H600 x W800mm, suits ARCA608030  
**IDSARCA8060** – inner door H800 x W600mm, suits ARCA806030

**Material** Galvanized steel, RAL 7035 powder coated

### DIN rail frame set, DRSARCAxxxx



**Description** DRSARCA DIN rail frame set provides a fast and easy way to mount DIN rail components inside the ARCA enclosure. Supplied as a complete kit including DIN rail frame, depth adjustment rails and a pre-cut front escutcheon. Components can be pre-mounted and pre-wired on the DIN rail frame at desired depth and then the whole assembly can be simply slid into the ARCA enclosure and the escutcheon screwed in place, thus saving considerable time.

**Ordering information**

**DRSARCA203015** – DIN rail frame set 1 x 11 modules, suits ARCA203015 H200 x W300 x D150mm  
**DRSARCA302015** – DIN rail frame set 1 x 5 modules, suits ARCA302015 H300 x W200 x D150mm  
**DRSARCA304015** – DIN rail frame set 1 x 16 modules, suits ARCA304015 H300 x W400 x D150mm  
**DRSARCA304021** – DIN rail frame set 1 x 16 modules, suits ARCA304021 H300 x W400 x D210mm  
**DRSARCA403015** – DIN rail frame set 2 x 10 modules, suits ARCA403015 H400 x W300 x D150mm  
**DRSARCA403021** – DIN rail frame set 2 x 10 modules, suits ARCA403021 H400 x W300 x D210mm  
**DRSARCA405021** – DIN rail frame set 2 x 22 modules, suits ARCA405021 H400 x W500 x D210mm  
**DRSARCA504021** – DIN rail frame set 3 x 16 modules, suits ARCA504021 H500 x W400 x D210mm  
**DRSARCA406021** – DIN rail frame set 2 x 27 modules, suits ARCA406021 H400 x W600 x D210mm  
**DRSARCA604021** – DIN rail frame set 3 x 16 modules, suits ARCA604021 H600 x W400 x D210mm  
**DRSARCA507030** – DIN rail frame set 3 x 32 modules, suits ARCA507030 H500 x W700 x D300mm  
**DRSARCA705030** – DIN rail frame set 4 x 21 modules, suits ARCA705030 H700 x W500 x D300mm  
**DRSARCA608030** – DIN rail frame set 3 x 38 modules, suits ARCA608030 H600 x W800 x D300mm  
**DRSARCA806030** – DIN rail frame set 4 x 27 modules, suits ARCA806030 H800 x W600 x D300mm

**Material** Galvanized steel frame, plastic escutcheon and depth adjustment rails

### Wall mount bracket, WMKARCAxx, WMKQxxx

	<b>Description</b>	<p>WMKARCA and WMKQ wall mounting brackets permit the ARCA enclosure to be mounted on a vertical wall and provide a space between the wall and enclosure for cleaning and ventilation. The wall mount brackets attach to the unique double corner, thus no drilling of the enclosure is required and IP rating is maintained.</p> <p>The WMKARCA mounting brackets are manufactured in stainless steel and provide either a 10mm or a 40mm gap between the enclosure and the wall.</p> <p>The WMKQ mounting brackets are manufactured in glass reinforced polycarbonate and provide either a 10mm or a 50mm gap between the enclosure and the wall.</p> <p>All mounting brackets are supplied as a pack of 4.</p>
	<b>Ordering information</b>	<p><b>WMKARCA10</b> – wall mount brackets with 10mm gap, suits ARCA sizes 2030, 3020, 3040, 4030, 4050, 5040, 4060 and 6040</p> <p><b>WMKARCA40</b> – wall mount brackets with 40mm gap, suits ARCA sizes 2030, 3020, 3040, 4030, 4050, 5040, 4060 and 6040</p> <p><b>WMKARCA10M</b> – wall mount brackets with 10mm gap, suits ARCA sizes 5070, 5070, 6080 and 8060</p> <p><b>WMKARCA40M</b> – wall mount brackets with 40mm gap, suits ARCA sizes 5070, 5070, 6080 and 8060</p> <p><b>WMKQ10S</b> – plastic wall mount brackets with 10mm gap, suits ARCA sizes 2030, 3020, 3040, 4030, 4050, 5040, 4060 and 6040</p> <p><b>WMKQ50S</b> – plastic wall mount brackets with 50mm gap, suits ARCA sizes 2030, 3020, 3040, 4030, 4050, 5040, 4060 and 6040</p> <p><b>WMKQ10M</b> – plastic wall mount brackets with 10mm gap, suits ARCA sizes 5070, 7050, 6080 and 8060</p> <p><b>WMKQ50M</b> – plastic wall mount brackets with 50mm gap, suits ARCA sizes 5070, 7050, 6080 and 8060</p>
	<b>Material</b>	<p><b>WMKARCA</b> – 316 grade stainless steel</p> <p><b>WMKQ</b> – glass reinforced polycarbonate</p>

### Depth adjustment kit, CBSARCAxx

	<b>Description</b>	<p>CBSARCA depth adjustment kits allow the MPSARCA mounting plates to be mounted at various depths within the enclosure. Available in three versions to suit the available ARCA enclosure depths, the CBSARCA quickly and easily mounts into the pre-formed corner rails in the enclosure. Supplied as a pack of 4 with mounting hardware</p>
	<b>Ordering information</b>	<p><b>CBSARCA15</b> – depth adjustment kit for 150mm deep enclosures</p> <p><b>CBSARCA21</b> – depth adjustment kit for 210mm deep enclosures</p> <p><b>CBSARCA30</b> – depth adjustment kit for 300mm deep enclosures</p>
	<b>Material</b>	<p>Glass reinforced polycarbonate, galvanised steel lugs</p>

### Pole mount kit, PMKARCAxx

	<b>Description</b>	PMKARCA pole mount kits allow the ARCA enclosure to be mounted to a vertical pole. Available in five versions to suit the available ARCA enclosure widths and the pole mount kit suits poles diameter 100-300mm.
	<b>Ordering information</b>	<p><b>PMKARCA20</b> – pole mount kit for 200mm wide enclosures</p> <p><b>PMKARCA30</b> – pole mount kit for 300mm wide enclosures</p> <p><b>PMKARCA40</b> – pole mount kit for 400mm wide enclosures</p> <p><b>PMKARCA50</b> – pole mount kit for 500mm wide enclosures</p> <p><b>PMKARCA60</b> – pole mount kit for 600mm wide enclosures</p>
	<b>Material</b>	Stainless steel

### Door stop, DSPARCAxxx

	<b>Description</b>	DSPARCA door stops allow the door to be held securely in the open position while working on the enclosure once installed
	<b>Ordering information</b>	<p><b>DSPARCARM</b> – door stopper right, suits ARCA larger sizes 5070 - 8060</p> <p><b>DSPARCAVRS</b> – door stopper right, suits ARCA smaller sizes 3020 - 6040</p>
	<b>Material</b>	Stainless steel

### Rain canopy, RCSARCAxxx

	<b>Description</b>	RCSARCA rain canopies help prevent water pooling near the door seal or dripping into the enclosure when the door is opened.
	<b>Ordering information</b>	<p><b>RCSARCA2030</b> – rain canopy, suits ARCA2030</p> <p><b>RCSARCA20P</b> – rain canopy, suits ARCA3020</p> <p><b>RCSARCA3040</b> – rain canopy, suits ARCA3040</p> <p><b>RCSARCA30P</b> – rain canopy, suits ARCA4030</p> <p><b>RCSARCA4050</b> – rain canopy, suits ARCA4050</p> <p><b>RCSARCA4060</b> – rain canopy, suits ARCA4060</p> <p><b>RCSARCA40P</b> – rain canopy, suits ARCA5040</p> <p><b>RCSARCA5070</b> – rain canopy, suits ARCA5070</p> <p><b>RCSARCA50P</b> – rain canopy, suits ARCA7050</p> <p><b>RCSARCA6040</b> – rain canopy, suits ARCA6040</p> <p><b>RCSARCA6080</b> – rain canopy, suits ARCA6080</p> <p><b>RCSARCA60P</b> – rain canopy, suits ARCA8060</p>
	<b>Material</b>	Marine grade aluminium, RAL 7035 powder coated



# Optimise performance with Smart Motor Control

When it comes to your food and beverage requirements, elevate your operations and connectivity with Smart Motor Control solutions from NHP.

Access to production and machine data helps you to make informed decisions that improve production, mitigate downtime, increase productivity and boost profitability, offering substantial benefits over conventional approaches.

Work smarter and increase asset utilisation by implementing a Smart Motor Control Solution from NHP to improve productivity and avoid motor failures with an integrated, data-driven approach.

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**Door:**

- Door opening angle 120°
- Pre-formed fixing studs inside
- Easy access to the contents

**Patented pending hinge design:**

Easy assembly and refined appearance



**Mounting pods:**

On base, cover and four base sides



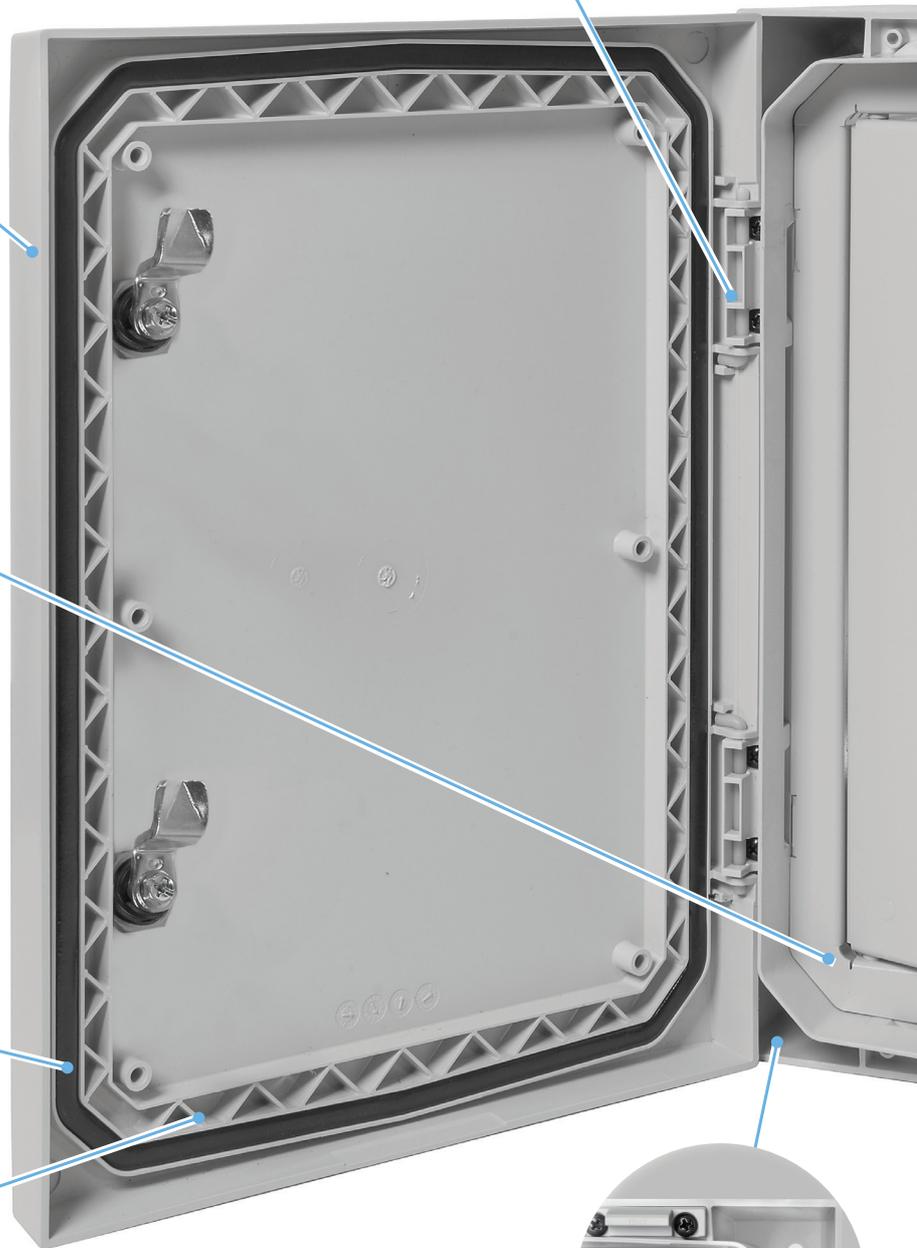
**Gasket:**

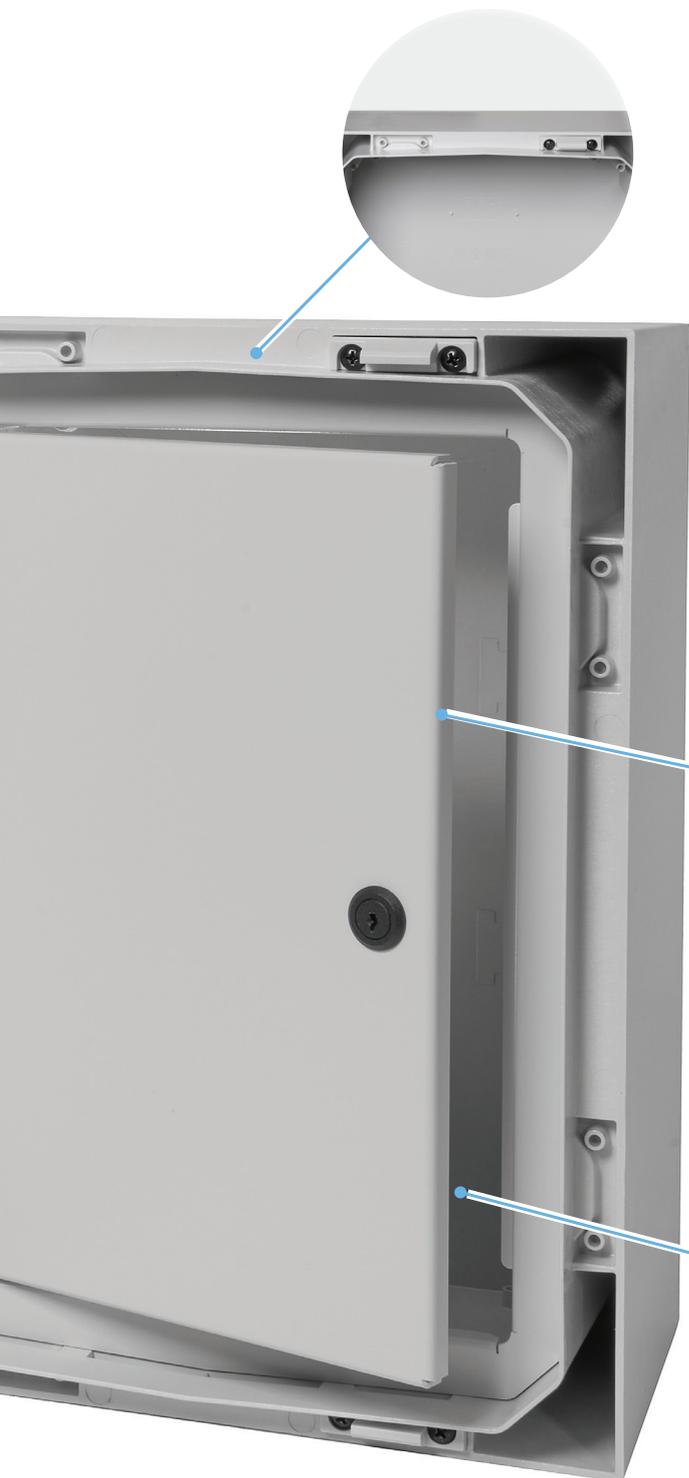
Wide and secured gasket with PUR material for high quality sealing



**Special moulded rib design:**

For making the cabinet extra stable and solid





**Sloped design on base:**

- Self draining
- Better waterproofing

**Base:**

The main body of the Fibox ARCA cabinet is made from rugged glass reinforced polycarbonate which offers several key benefits:

- Non-corrosive
- High impact resistance
- Low maintenance
- UV resistant
- Aesthetically pleasing
- Easy to machine

**Optional:**

- Inner door for additional protection of components and equipment

**Mounting plate:**

- Insulated or steel available
- Ordered separately
- Depth adjustable in 10mm increments

**Corner design:**

- Double corner to secure fixing without destroying the IP
- Robust and rigid cabinet

## The Fibox ARCA range offers several key benefits

- Available in a range of sizes ex-stock, minimising delivery time
- Life expectancy over 25 years when installed outside, will likely outlast the internal components
- Independently tested to ISO 4892-2 (accelerated weathering), outperformed both fibreglass and other polycarbonate materials
- Does not delaminate under UV exposure, unlike other materials
- Easy depth adjustment provides the flexibility to suit different depth components
- Option of metal or insulated mounting plates provides flexibility
- Wide range of modular, easy-to-fit accessories available, allowing customisation and saving significant time and money during assembly
- Fitting of the inner door requires no tools and takes about a minute, a fraction of the time of competitive offerings
- Fitting of DIN rail mount set set takes about six minutes, less than half of competitive offerings
- Oversized packing carton contains drilling template and can accommodate an enclosure fitted out with cable glands, minimising re-packing time for transport to site
- Thick walls allow cable glands to be screwed directly into the enclosure, providing cable entry flexibility
- Light weight provides more location flexibility, particularly when mounting above ground on poles and gantries

### Applications

The Fibox ARCA has been designed with robustness and weather resistance in mind, making it ideally suited for all outside applications. The material properties of the glass-fibre-reinforced polycarbonate make the ARCA inherently fully insulated, resistant to corrosion, resistant to many chemicals, resistant to high UV exposure and able to deliver a life expectancy of over 25 years – critical for high value infrastructure projects. ARCA enclosures have the strength of steel at a fraction of the weight. These characteristics make the ARCA ideally suited to applications in the following industries.

- Renewable energy, including PV/solar, wind and hydro
- Water and waste water treatment plants
- Aquaculture and other marine environments
- Heavy industries
- Fertiliser plants, cement plants
- Agriculture
- Petrochemical plants
- Telecommunications
- Temporary connections on construction sites
- ITS, railways and airports, particularly on overhead gantries and poles





### Flexible depth adjustment



Adjustable mounting depth



Adjustable mounting depth

### Easy to mount DIN rail module set

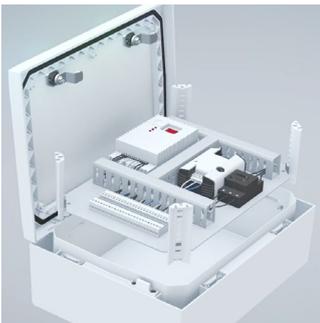


Patented easy and quick to install DIN rail frame set

### Easy to mount inner door – no tools required



### Easy mounting



## Technical Information

<b>Material:</b>	Glass fibre reinforced polycarbonate
<b>Ingress protection (EN 60529):</b>	IP66
<b>Impact resistance (EN 62262):</b>	IK10 (20 Joules)
<b>Temperature range (continuous):</b>	-40° ... +80°C
<b>Temperature range (short term):</b>	-40° ... +120°C
<b>Electrical insulation:</b>	Totally insulated
<b>Colour:</b>	RAL 7035 (Industry grey)
<b>Glow wire test (IEC 695-2-1):</b>	960°
<b>Non-toxicity:</b>	Halogen free (DIN/VDE 0472, Part 815)
<b>Flammability rating (material):</b>	UL 94-5VA
<b>UV resistance:</b>	UL 508; 720 hours in "Weatherometer"
<b>Gasket:</b>	Polyurethane (PUR)
<b>Conformity to standards:</b>	EN/IEC 62208, EN/IEC 61439-1-4, RoHS directive 2011/65/EU, Low voltage directive 2006/95/EC (up to 1500V DC)

### Certifications for Fibox ARCA range:



## Why NHP

While our customers' challenges may be complex, their ultimate goal is simple: run a profitable, safe and sustainable operation.

At NHP we're committed to servicing the needs of our customers. With over 50 years of experience in the electrical and engineering industry, our specialist teams work collaboratively to design and deliver solutions to maximise the success of your project.

We bring together internationally recognised automation, power distribution and motor control products with local knowledge and expertise to deliver best practice services from concept design through to installation and after-sales service, including project management.

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NHP project  
management



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