



FIBOX

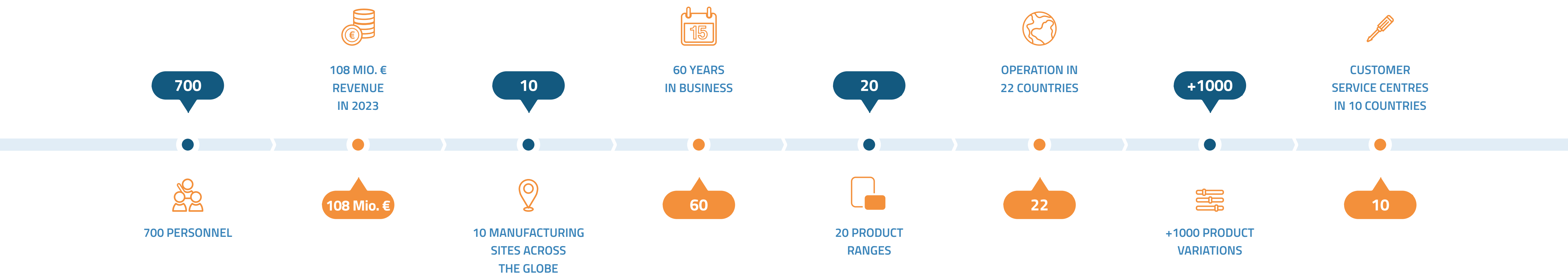
Enclosing innovations

Brief History

Fibox is a global leader in enclosing solutions, putting design and innovation at the forefront of everything we do. With our Nordic roots and headquartered in Finland since 1966 we create robust and industry leading enclosures. Largest manufacture of thermo plastic power and control cabinets & enclosures for industrial, remote, Harsh and corrosive environments Extensive product offering all available to be customised to suite your requirements.

Our 4 Business lines

- 1 | Cabinets & Enclosures
- 2 | Custom Thermoplastics
- 3 | Electrical & Automation systems
- 4 | Electric vehicle charging



Fibox Propositions

- We create robust and industry-leading products and solutions, protecting power distributions control systems, and electronic devices from the realities of their harsh surrounding elements and environments.
- Largest manufacture of thermo plastic power and control cabinets & enclosures for industrial, remote, Harsh and corrosive environments, Factory customization (GMBH). Manufacturing site global x 10 (Finland, Germany, Poland, Korea, China, USA).
- Extensive product offering: ARCA, TEMP, MNX, EK, SOLID, PICCOLO, NEO, MCE, CAB, QUICK, EURONORD, CARDMASTER, ALU-MINIUM enclosures, Cable management, Accessories, Marine offering & STREET CABINETS.

Competitors

Schneider / Rittal / Gewiss / Ensto / Spelsberg / Hensel / Camden Boss / CE-TEK / Eldon / Cooper / Eaton

Other Competitors

Garco / Hager / Gamma / Bopla / Tehnplast / Zanardo / Bernstein / Multibox / Abtech / Legrand / GE / ABB / Uriarte / Cahors / Bocchiotti / ETA



Applications

- Medical ▪ Energy/Environmental ▪ Smart Building ▪ Highway/Transportation ▪ Rail (rolling & Infrastructure)
- Communications (5 G) ▪ Panel Builder/CEM ▪ Agriculture ▪ Water & Waste



Telecom & Data



Machine &
Vehicle Building



Factory &
Building
Automation



Transport



Environment



Renewable
Energy



Utilities



Heavy
Industry



Electrification
(EVC)

Target Customers & Applications

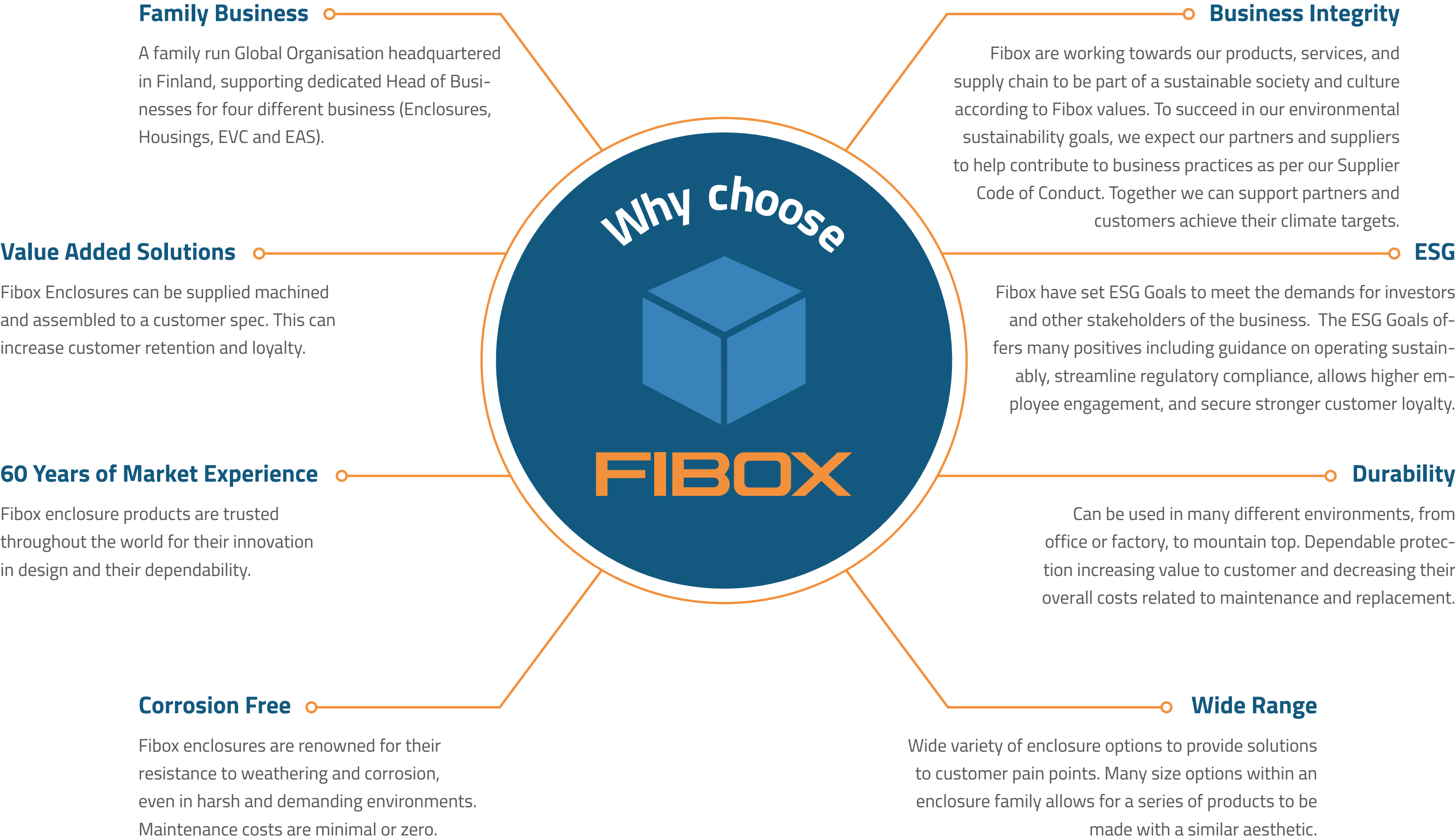
Distributors, OEMs, System Integrators, Contractors and End Users

Target Application:

- **Environmental utilities:**
Water Treatment, Water Dosing Meter Power
Distribution, Measurement & Control
- **Security:**
Camera Telemetry, Camera Power Supply,
HMI Protection
- **Agriculture Tech:**
Machine Control, Robotics

Trends in Market

- Trend moving from steel enclosures to Polycarbonate enclosures – taking market share & new projects choosing Polycarbonate over steel.
- Sustainability becoming market priority for customers.
- Competitors are developing more and more customer-led applicative products.
- Increased growth of customised enclosures direct from manufactures. Allowing customers to free up valuable space for production equipment.



Market Trend



Wall-Mounted Cabinet Market

Market Size

- Globally 1,5 Billion Euro Market of which 0,45 Billion Euro is accessible with our offering.
- Split between Corrosive or Noncorrosive products (70 % Corrosive + 30 % Noncorrosive).
- Main materials. Trend growing towards non-metallic solutions.

Enclosure Market

Market Size

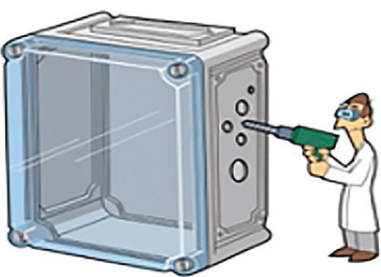
- Globally 5.7 Billion Euro Market of which 1.7 Billion Euro is accessible with our offering.
- Split between Corrosive or Noncorrosive products (60 % Corrosive + 40 % Noncorrosive).
- Main materials. Trend growing towards non-metallic solutions.



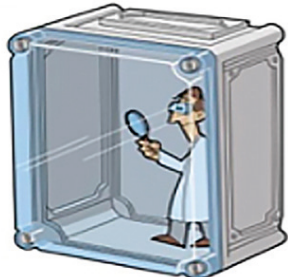
Why Fibox Polycarbonate?

High Performance and securing
Innovations with long life-time.

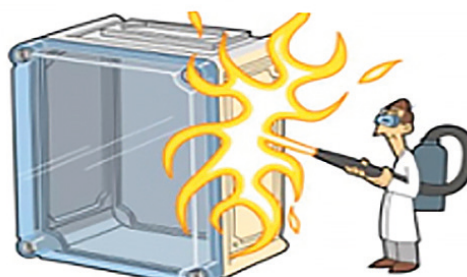
Easy machining



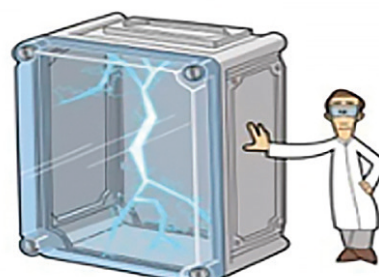
Transparency



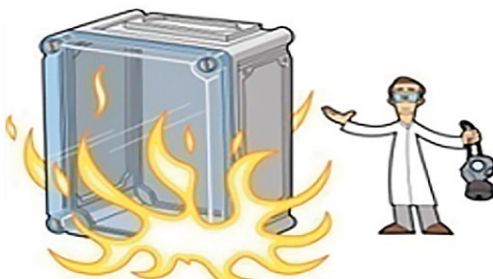
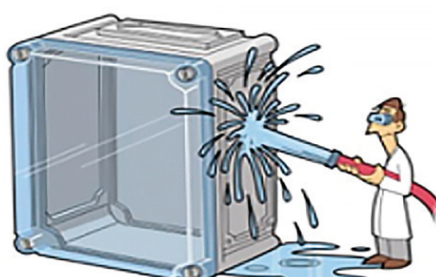
Flammability classification
and fire safety temperature resistance.



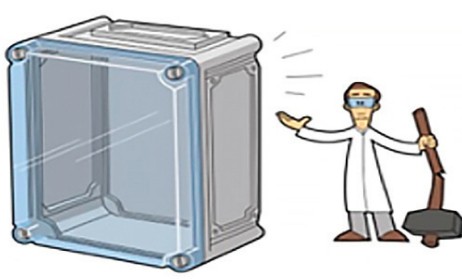
Electrical isolation



Ingress protection class
Protection against liquids and solid objects IP classification.



Halogen free



Protect against mechanical impacts
IK classification.



Resistance
against chemicals and corrosions.



UV resistance



Light weight

Customising – From enclosure to solution

Fibox customising center make difficult easy and save your time.



Segments

Please note that the information provided above is not definitive.
The information above serves as an informed conversation starter.

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Product family	4 / 5 / 6 G	FTTX	Fibre Breakout Box	Switchgear	HMI Security	Vehicles Power Distribution	Termination Boxes	Access Control	HVAC	Fire Detection	Gas Proving	Power Dist	Elec Gate	Damper Control	Camera Telemetry	Access Control	Perimeter Security	Robotics	LV Switchgear	HMI Security	Control Panels	Power Distribution	Highway Comms	Feeder Pillar	Distribution Enclosures	Gantry Lighting	Traffic Monitoring	Pump Controls	Telemetry	Level Measurement	Env. Monitoring	Data Loggers	Dosing & Cleaning	String Combiner Box	DC Isolator Enclosure	Inverter Enclosure	Charge Controller Enclosure	Meter Enclosure	Field Connection Box	Junction Box	Pitch & Yaw Control	Inverter	Charge Controller	Lightning & Power Oul	Slip Ring Enclosure	Infrastructur	Charge Point	Monitoring	Measurement	Robotics	Machine Control	Dental	X-Ray Equip																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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● FOCUS ● POSSIBLE

Product Line: **ARCA**

Simple Installation

- Wall mountable or Pole mountable
- Indoors or outside
- Easy to drill and cut without special tools

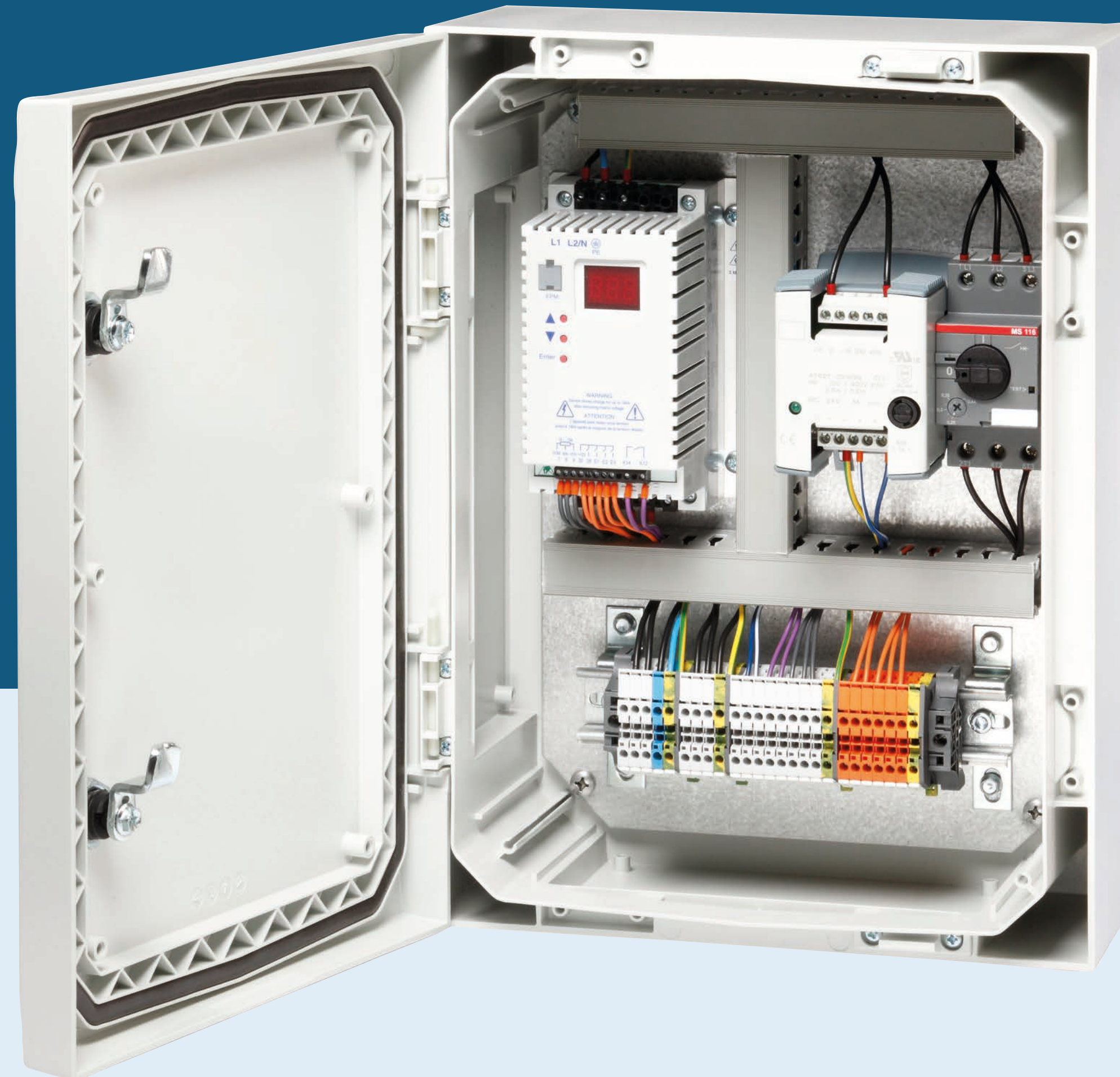
Rating

- IP66
- IK10
- EN/IEC 62208
- EN/IEC 61439-1-4

Target Customer / Markets / Applications

Target Application

- Power and control cabinets in harsh and corrosive environments, Housing of wall & pole mount, Solar dc isolators, Remote Pump control in Water/Wastewater, Aquaculture applications, Automation IoT and other Telemetry applications. Transportation, Telecommunications, Energy
- Distributors, OEMs, System Integrators , Contractors and End Users



Accessories

- Inner door
- Pole mounting kits
- Wall mounting kits
- Din rail sets
- Swing handle version
- Window Version

Weatherproof

- Maintains perfect seal, won't leak or allow water/dust ingress
- Tested from -40 to +80 degrees Celsius
- UV protected



Key Questions

1 | It's plastic, can't be as strong as steel?

ARCA is rated to IK10, the same as leading mild and stainless-steel enclosures. Unlike steel however, which will permanently deform, ARCA is resilient and will "bounce back" after an impact, thus maintaining its shape and ingress protection.

2 | It's plastic, it won't last outdoors?

Yes, it will. UV-stabilised polycarbonate is long lasting and ARCA has been tested under UV to equivalent of 30 years exposure with no decrease in mechanical strength.

3 | It's not shielded?

ARCA, being polycarbonate, is RF-transparent. This makes it ideally suited to telemetry applications where the antenna, transmitters and receivers can be safely mounted inside the enclosure, eliminating risk of any mechanical damage and vandalism. However, for applications that require shielding (for example VSD, soft-starter etc), a steel enclosure may be a better option.

Unique Values Proposition

Versatility

- The ARCA is an injection-moulded wall-mount enclosure made from glassfiber reinforced polycarbonate. Available in sizes from 12"x 8"x 6" (300x200x150) up to 32"x 24"x 12" (800x600x300), UL Type 4, IP66-rated and suitable for outdoor use (>25 years UV exposure) Corrosion Resistant and offers the strength of steel at a fraction of the weight.
- The modular accessories are fast and easy to install, saving time and money. Unlike comparable GRP (polyester) enclosures, ARCA won't delaminate (bloom) or lose strength when installed outdoors.
- Its unique solutions offer attributes superior to competitors in strength, light weight and corrosion resistance, ease of install, IP and IK ratings along with high temperature performance.

Competitors

Steel: Rittal / nVent / Schneider / Saginaw

GRP: Allied Moulded / Stahlin / Vynckier

Rittal E-box EB (mild steel)

Saginaw. "No brand" mild steel powder coated enclosures. It's powder-coated mild steel, will corrode if used outside or if powder coating is scratched/damaged, will dent if hit. Harder to machine will produce conductive burrs. Only rated to IK08 ARCA will not rust. Ever. And it's rated to IK10 – much stronger.

Rittal AE series (304 stainless steel)

Stainless steel costs more and is heavier. 304 S.S. is OK for outdoors but not suitable for marine or coastal locations. Machining will produce conductive burrs and needs special tools. ARCA can be used anywhere, is lighter, cost less and is much easier to machine with standard tools, with no sharp burrs or conductive swarf.

No Name PC /Fiberglass GRP

Variable material quality, questionable NEMA/IP and IK ratings, no guarantee of longevity when used outdoors make them a risky proposition. Fiberglass (GRP) delaminates and loses strength over time. Inventory in US is spotty at best. Sold by middlemen. Cheap install followed by expensive call-out/maintenance/repairs.



Product Line: **NEO**

Simple Installation

- Door easily changed on site
- Wall mountable or Pole mountable
- Door opening angle more than 180 degrees

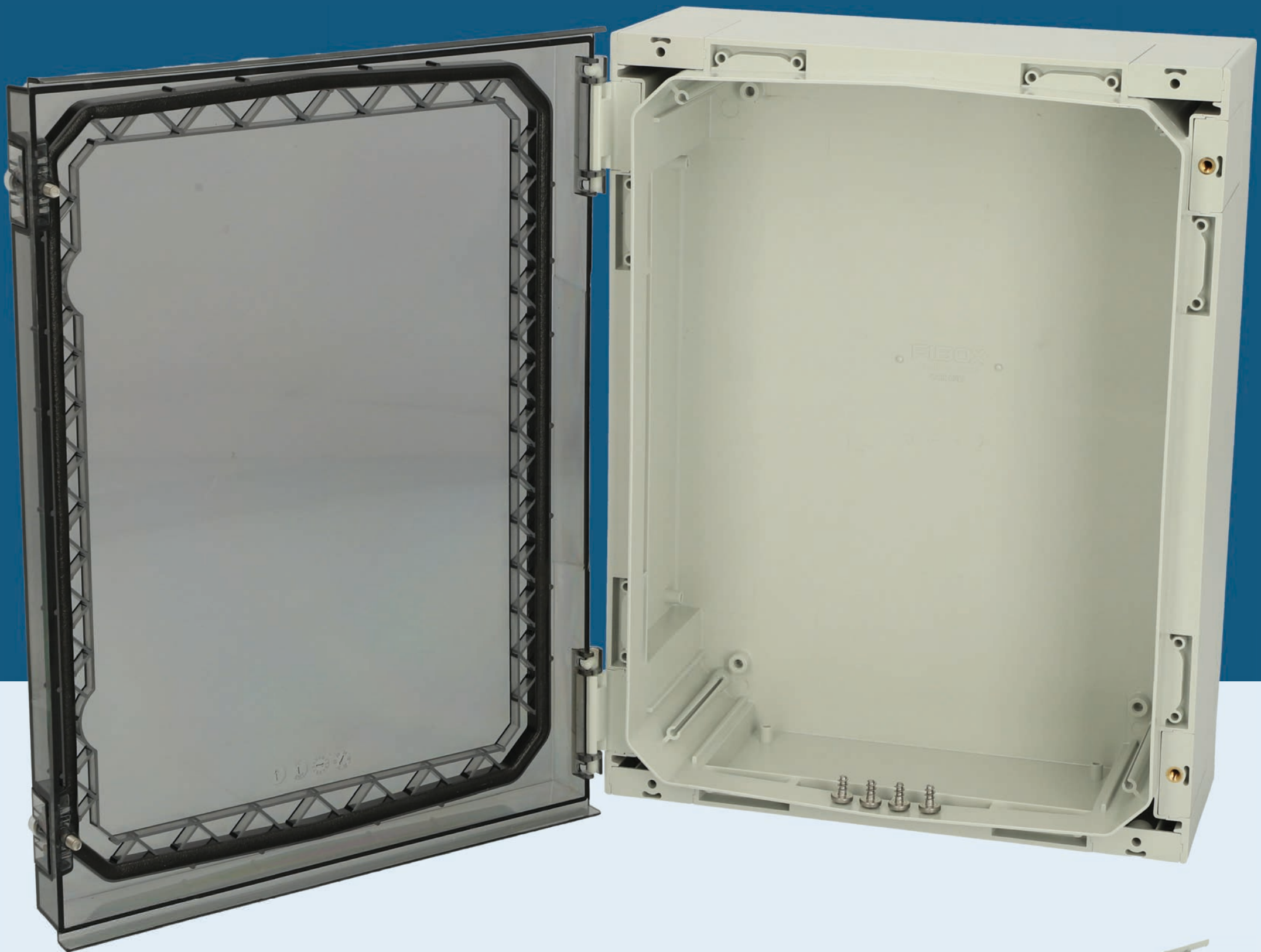
Rating

- PC IK09
- ABS IK08
- EN/IEC 62208
- EN/IEC 61439-1-4

Target Customer / Markets / Applications

Target Application

- Power and control cabinets in harsh and corrosive environments, Housing of wall & pole mount, Telemetry applications, Solar DC combiners/isolators, Remote Pump control in Water/Wastewater, Aquaculture applications, Automation IoT. Transportation, Telecommunications, Energy
- Distributors, OEMs, System Integrators, Automation, Vehicle & Machine Builders, Contractors and End Users

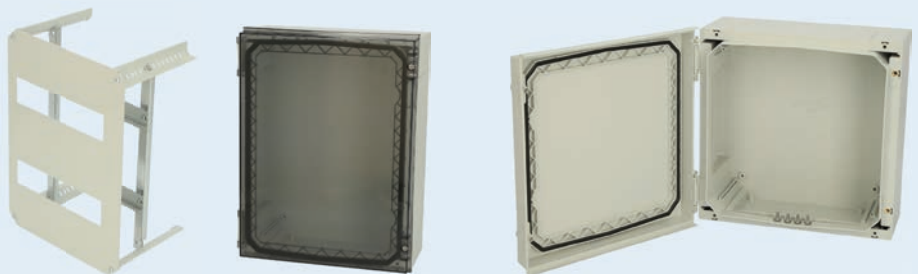


Accessories

- Solid or Transparent Cover
- Multi Plastic Mounting plates
- Din rail set
- Pole mounting kits

Weatherproof

- Maintains perfect seal, won't leak or allow water/dust ingress
- Tested from -40 to +60 degrees Celsius



Key Questions

1 | It's plastic, can't be as strong as steel?

NEO PC is rated to IK09, similar to leading mild and stainless-steel enclosures. Unlike steel however, which will permanently deform, NEO is resilient and will "bounce back" after an impact, thus maintaining its shape and ingress protection.

2 | It's plastic, it won't last outdoors?

Yes, the Polycarbonate version will. It is UV-stabilised. Polycarbonate is long lasting and has been tested under UV to equivalent of 30 years exposure with no decrease in mechanical strength.

3 | It's not shielded?

NEO ABS and polycarbonate, is RF-transparent. This makes it ideally suited to telemetry applications where the antenna, transmitters and receivers can be safely mounted inside the enclosure, eliminating risk of any mechanical damage and vandalism. However, for applications that require shielding (for example VSD, soft- starter etc), a steel enclosure may be a better option.

Competitors

Steel: Rittal / Eldon / Schneider

GRP/ABS: Schneider / ABB / Hylec

Rittal E-box EB (mild steel)

It's powder-coated mild steel, will corrode if used outside or if powder coating is scratched/damaged, will dent if hit. Harder to machine will produce conductive burrs. Only rated to IK08.

Eldon ASR series (304 stainless steel)

Stainless steel costs more and is heavier. 304 S.S. is OK for outdoors but not suitable for marine or coastal locations. Machining will produce conductive burrs and needs special tools. NEO can be used anywhere, is lighter, costs less and is much easier to machine with standard tools, with no sharp burrs or conductive swarf.

Schneider GRP

No guarantee of longevity when used outdoors make them a risky proposition. Fiberglass (GRP) delaminates and loses strength over time.

Hylec ABS

ABS cabinet enclosure with low IK value and questionable IP. No good in outside conditions due to UV degradation.

Unique Values Proposition

Versatility

■ The NEO is a new concept in enclosure design. Incorporating unique adaptability, Neo is available with a variety of door and lock options and has an integrated rain canopy. It's made from premium glass Polycarbonate and an economic ABS version is also available. NEO is very easy and quick to populate, saving time and money. Available in sizes from 320 x 220 x 150 mm to

420 x 320 x 150 mm. UL Type 4, IP66-rated and suitable for outdoor use (>25 years UV exposure) Corrosion Resistant and offers the toughness of steel at a fraction of the weight. Material is transparent to electromagnetic signals.

■ The modular accessories are fast and easy to install, saving time and money.

■ Its unique solutions offer attributes superior to competitors in strength, light weight and corrosion resistance, ease of population and installation, IP and IK ratings along with high temperature performance.

Product Line: **MCE65**

Insulated Distribution Enclosures

Supplied completely assembled with necessary parts:

- Din Rail
- Insulated terminals
- Neutral and Earth Bar
- Plastic caps for screws
- Cover for unused modules



Product range

- 4 modules to 48 modules
- Optional lock available

Rating

- IP65
- IK09
- Rated Voltage AC 400v/DC 1000v
- Glow wire tested

Weatherproof

- Tested from -25 to +60 degrees Celsius
- UV Stable

Target Customer / Markets / Applications

Target Application

- To house and protect Din Rail Mounted IEC components, such as Circuit Breakers, Switches, Meters and other Din Rail mounted equipment. Commercial and Industrial markets. Basically all segments and industries – one of the most commonly used enclosures on the market.
- Distributors, OEMs, System Integrators, Electrical Contractors and End Users



Key Questions

1 | Which plastics are best?

Self extinguishing polymers are the same as Acrylonitrile acrylic styrene or amorphous thermoplastic, the MCE65 uses the best material to support self extinguishing, and offering a glow wire test to 960 degrees.

2 | It's plastic, it won't last outdoors?

Yes, it will. UV-stabilised polycarbonate is long lasting and MCE65 has been tested under UV to equivalent of 30 years exposure with no decrease in mechanical strength.

3 | Can I fit RCBOs

Yes. An RCBO, does the job of both an RCD and MCB, preventing nuisance tripping and should be used on mission critical circuits.

4 | Can I buy accessories to go with this?

Yes we supply, rubber grommets and locks for the enclosure.
The MCE65 comes supplied as an insulated terminal (as standard), and covers for unused modules.

Competitors

Steel: Eaton
GRP: Schneider / Spelsberg

Eaton Module Modular Enclosure with Din Rail (Steel)

Unglazed door, resulting in easy scratched/damaged, will dent if hit.
Modules range from 6 - 48. Only rated as IP30. Steel its heavier will need a good fixing to hold the enclosure on the wall and will rust if fitted in an open environment.

Schneider

Kaedra Rage, optional keylock, made from Self-extinguishing polymer.
Variety in sizes, transparent green cover.

Spelsberg

Polycarbonate enclosure, knock outs, sealable cover, smallest size is 315 x 300 x 155mm.

Unique Values Proposition

Versatility

- The MCE65 is an injection-moulded wall-mount enclosure made from rugged thermoplastic. Available in sizes from 127 x 200 x 120mm to 318 x 663 x 142mm., modules (4,6,8,12,18,24,36,48).
- Suitable for outdoor use (as made from Acrylonitrile styrene acrylate (ASA), also called acrylic styrene acrylonitrile, is an amorphous thermoplastic developed as an alternative to acrylonitrile butadiene styrene (ABS), but with improved weather resistance) this material is widely used in the automotive industry, for its durability and strength.
- Its unique solutions offer attributes superior to competitors in strength, light weight and corrosion resistance, ease of install, high IP and IK ratings along with high temperature performance.

Product Line: **PROTECTION WINDOW**

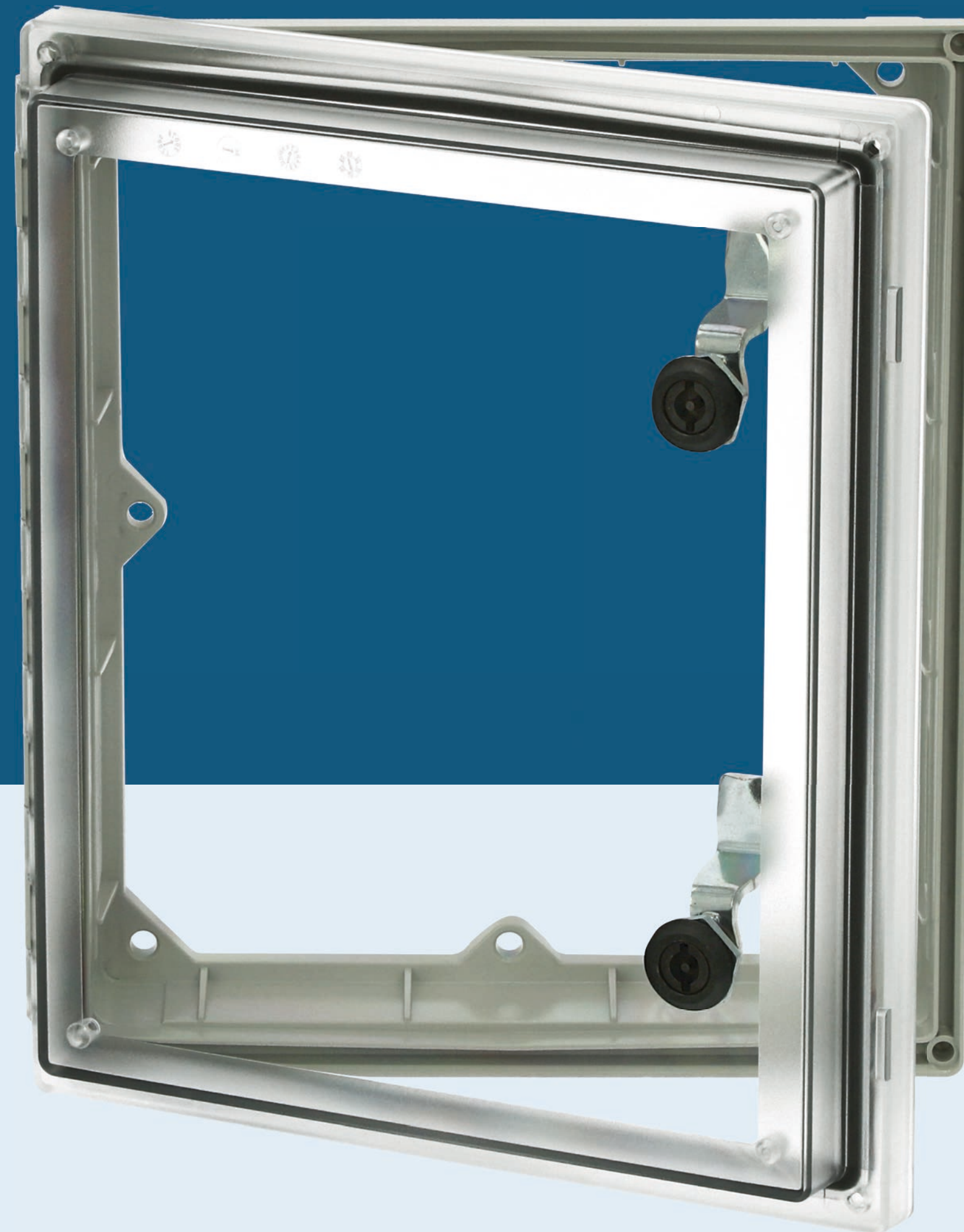
Supplied completely assembled with necessary parts:

- Clear transparent
- DB3 lock
- Screws for fitting
- Template to support easy fitting

Target Customer / Markets / Applications

Target Application

- Companies that need to protect their HMIs from tampering or unnecessary modification. Additional non-electrical applications, such as key cabinet.
- Distributors, OEMs, Companies that use HMIs, Contractors and End Users. Manufacturers of electrical panels and Switchgear.



USP

- Ability to retro fit to ANY flat surface
- Lightweight yet tough
- Good depth, enough to house HMI control buttons

Rating & tested

- IK09
- IP66
- Tested from -40 to +120 degrees Celsius
- Glow wire tested (IEC 60695): 960C
- Self-Extinguishing to UL 94 V0

Product Range

- 5 sizes available
- Smallest 291 x 244 x 88 mm to Largest 503 x 451 x 88 mm



Key Questions

1 | How many sizes in the range?

The PW is a NEW Fibox product and has 5 sku's: PW 292409 T (291 x 244 x 88mm), PW 343009T (340 x 300 x 90 mm) , PW 403409 T (394 x 346 x 88mm), PW 454009T (450 x 400 x 90mm), & PW 504409 T (503 x 451 x 88mm) all with With double bit locks'.

2 | Are there other key solutions available?

Yes, please give us a call for other key solutions.

3 | Is the PW IK and IP rated?

Yes, IK09 and IP66 and temperatures -40 and +120 degrees C.

4 | Is the cover UV protected?

Yes, the Protection Windows are tested to UL 508.

5 | Is the cover fire retardant?

Yes, Self-Extinguishing to UL 94 V0.

6 | Can the covers be retrofitted?

Yes they can. The Protection Windows can be fitted to any flat surface.

7 | Are they easy to fit?

Yes, there is a simple fixing position template supplied with them.

PROTECTION WINDOW

Unique Values Proposition

Versatility

- The Protection Window is supplied with double-bit locks, offering the best security for HMIs that need protection. The transparent window offers a clear view inside and overlapping cover for strength and increased gasket protection.
- Able to be mounted and fixed to doors and panels or any flat surfaces, meaning you do not have to replace the enclosure and HMI inside, adding the PW to the enclosure gives the opportunity to offer security without the additional cost or fuss.
- Its unique solutions offer attributes superior to competitors in strength, light weight and corrosion resistance, ease of population and installation, high IP and IK ratings along with high and low temperature performance.

Competitors

Ensto / Schneider / Rittal

Ensto

Locking type is push clips, will not offer the security needed, more of an inspection window that a Protection Window.

Schneider

Acrylic Window, with and aluminium frame and keylock. Keylock is mounted at the side, possibly prohibiting access to the window.

Rittal

Acrylic Cover, Aluminium Frame smoked transparent and heavier than Fibox product in weight.

Product Line: **MNX**

Range Offering

- PC or ABS
- Over 260 versions
- Sizes from 100 x 100 x 35 mm to 360 to 255 x 152 mm
- Grey or Transparent Cover
- Metric knock outs available

Accessories

- Mounting plates
- Din Rail TS 15/TS 35
- Cover Screws
- Pivotal front plate, aluminium

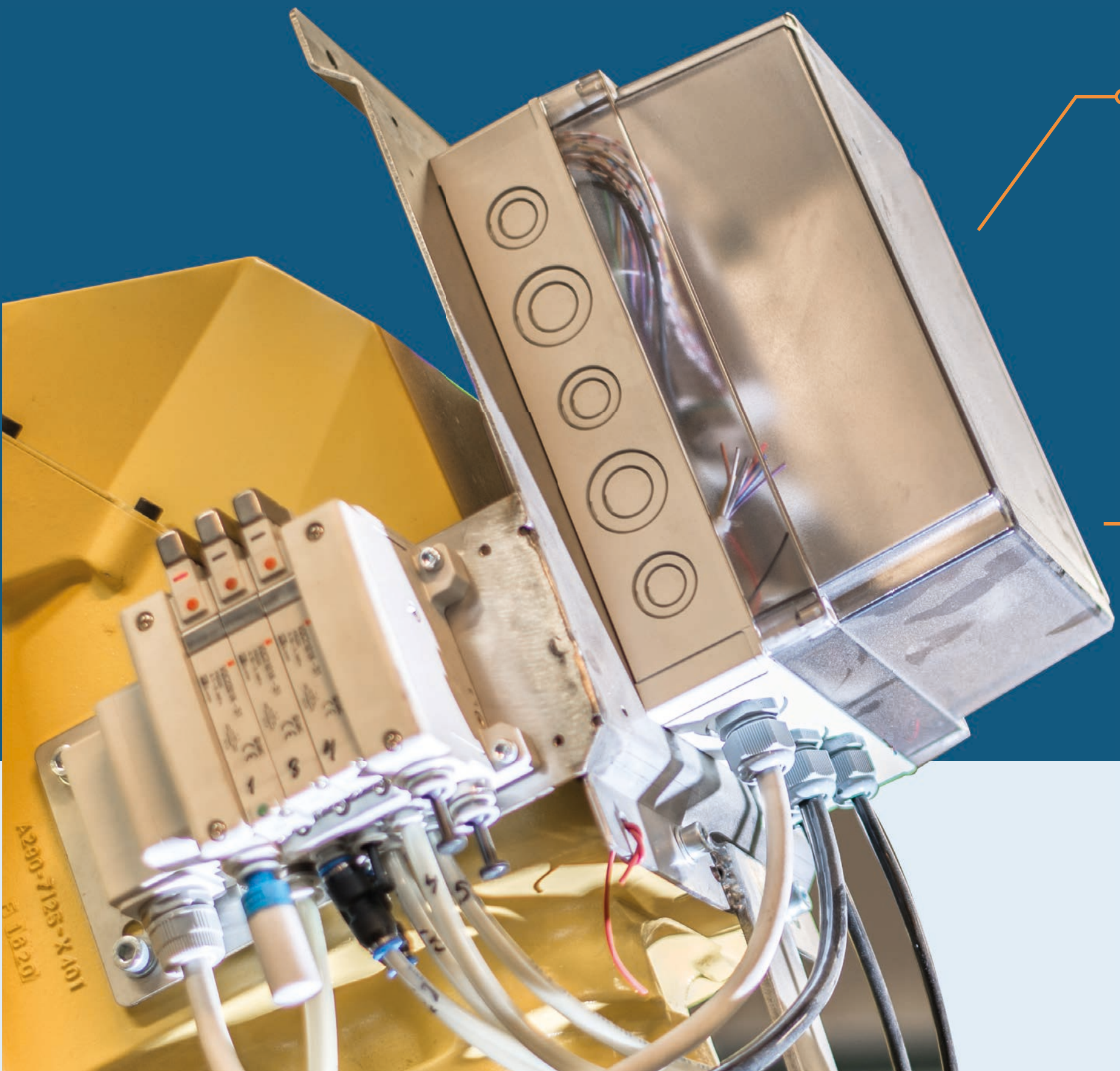
Rating

- IP66/67
- PC IK08
- ABS IK07

Target Customer / Markets / Applications

Target Application

- Housing PCBs for Industrial/agricultural Technology. Housing Terminals for terminal enclosures. Hand held instrumentation/machine control. Push buttons.
- Distributors, OEMs, CEMs, System Integrators and machine builders. Electronic apparatus and instrumentation manufacturers. The ideal enclosure range for housing PCBs and also Din Rail Mounted components such as terminals. The versions with knock-outs are particularly suitable for contractors and sales through distribution as they do not need to be machined to fit cable glands.



Key Questions

1 | Do they come with terminals?

No, but Din 35 rails are available as accessories for mounting terminals, terminal blocks can be fixed directly to mounting pods or mounting plate.

2 | It's plastic, it won't last outdoors?

Yes, the polycarbonate version will. It is UV-stabilised. polycarbonate is long lasting and has been tested under UV to equivalent of 30 years exposure with no decrease in mechanical strength. ABS is better suited to indoor applications; it is less stable against UV.

3 | Is the cover hinged?

The hinge set accessory TH A can be easily fitted using tools.

4 | Will using the knockouts affect IP Rating?

No, provided that the knockouts are sealed with cable glands or similar components that are rated the same or higher than the enclosure.

5 | How can I fix the enclosure to the wall?

Fixing can be via the four corner ports that are situated outside the sealed area, alternatively there are also wall fastening lugs available as an accessory.

Competitors

**Legrand / Schneider Electric /
GEWISS / Spelsberg / Hensel**

Legrand Plexo

The Plexo is only IP55 and limited to ABS (no Polycarbonate).

Schneider Thalassa TBP & TBS

ABS Discolouration, No Knockout Option, Low Chem Resistance
Low Impact Resistance, UL 94 HB (Flammability).

Gewiss GW

Injection moulded from 'Technopolymer': unknown characteristics. Only IP44, IP55 and IP56 versions available.

Spelsberg A-box

Polystyrene: Burns easily with toxic gas. Complete with simple terminals. IP65 only.

Hensel DK

With or without simple terminals. Polypropylene. No UL 94 Fire rating.
Claim to be IP66.

Unique Values Proposition

Strength & Versatility

- Available in sizes from 100x100x35 mm up to 360x255x152 mm (7 x footprints), IP66/67-rated, PC version suitable for outdoor use. Corrosion resistant (ABS IK07 – PC IK08). Good chemical resistance. Polycarbonate or ABS available. PC version available with metric knock-outs for cable glands.
- The accessories are fast and easy to install, saving time and money. Unlike comparable GRP (polyester) enclosures, MNX won't delaminate (bloom) or lose strength when installed outdoors.
- Variety of heights of base and cover to be versatile for many different component housing.
- Its unique solutions offer attributes superior to competitors in strength, light weight and corrosion resistance, ease of install, high, IP and IK ratings along with high temperature performance.



Product Line: **TEMPO**

Features

- Multiple wall mounting options
- PC & ABS
- Sizes from 95 x 65 x 60 mm to 344 x 289 x 157 mm
- Available with metric knock outs

Includes

- Base with PUR gasket
- Quick to install integral hinge

Accessories

- Fastening lugs
- Mounting plate
- Din Rail TS 15/TS 35

Rating

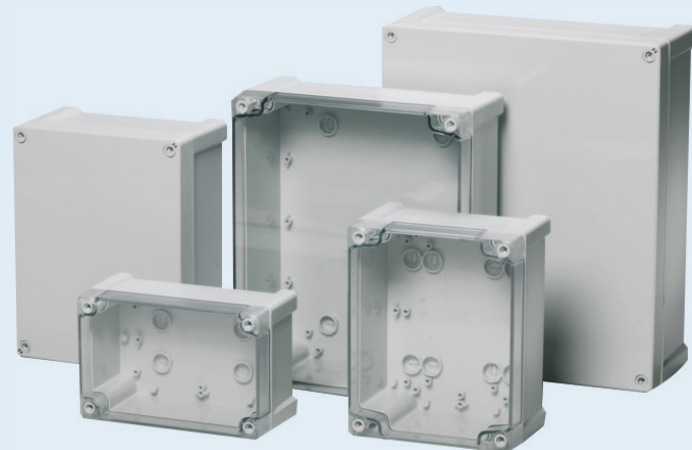
- IP65
- PC IK08
- ABS IK07



Target Customer / Markets / Applications

Target Application

- Residential & commercial buildings. Mechanical engineering, machine building and automation technology. Power and control cabinets in harsh and corrosive environments, Telemetry applications data centres, Solar DC combiners/isolators, Remote Pump control in Water/Wastewater, Aquaculture applications, Transportation, Telecommunications, Energy. Mounting small electrical items such as transformers, terminals, starters, etc.
- Distributors, OEMs, System Integrators, Automation, Vehicle & Machine Builders, Contractors and End Users



Key Questions

1 | Does this box come with terminals?

No, but Din 35 rails are available as accessories for mounting terminals, terminal blocks can be fixed directly to mounting pods in the base.

2 | It's plastic, it won't last outdoors?

Yes, the polycarbonate version will. It is UV-stabilised. polycarbonate is long lasting and has been tested under UV to equivalent of 30 years exposure with no decrease in mechanical strength. ABS is better suited to indoor applications; it is less stable against UV.

3 | Will using the knockouts affect IP Rating?

No, provided that the knockouts are sealed with cable glands or similar components that are rated the same or higher than the enclosure.

4 | Is the cover hinged?

The hinge set accessory TH T is an integral simple hinge device that can be easily fitted without tools.

5 | How can I fix the enclosure to the wall?

Fixing can be via the four corner ports that are situated outside the sealed area, alternatively there are knockouts within the base that can be utilized, there are also wall fastening lugs available as an accessory.

Competitors

**Legrand / Schneider Electric /
GEWISS / Spelsberg Hensel**

Legrand Plexo

The Plexo is only IP55 and limited to ABS (no Polycarbonate).

Schneider Thalassa TBP & TBS

ABS Discolouration, No Knockout Option, Low Chem Resistance
Low Impact Resistance, UL 94 HB (Flammability).

Gewiss GW

Injection moulded from 'Technopolymer': unknown characteristics. Only IP44, IP55 and IP56 versions available.

Spelsberg A-box

Polystyrene: Burns easily with toxic gas. Complete with simple terminals. IP65 only.

Hensel DK

With or without simple terminals. Polypropylene. No UL 94 Fire rating. Claim to be IP66.

Unique Values Proposition

Strength and Versatility

- Available in sizes from 95x65x60 up to 344x289x117 (9 x footprints), IP65-rated and suitable for outdoor use, Corrosion resistant (ABS IK07 – PCIK08). Good chemical resistance. Polycarbonate or ABS available.
- The modular accessories are fast and easy to install, saving time and money. Unlike comparable GRP (polyester) enclosures, Tempo won't delaminate (bloom) or lose strength when installed outdoors.
- DIN rails and adapters makes it easy to install the terminals, pre-cut knock-out making it easy to install and maintain.
- Tempo enclosure includes rapid hinges that allow using all cover screws, maintaining high IP 65 rating.
- Enclosures with metric knock-outs for the cable glands are available, Reinforced corners make the enclosure very rigid.
- Its unique solutions offer attributes superior to competitors in strength, light weight and corrosion resistance, ease of install, high, IP and IK ratings along with high temperature performance.

Product Line: **QUICK**

Rating

- IP 66/67
- IK08
- UV Resistant
- UL 94 V0

Features

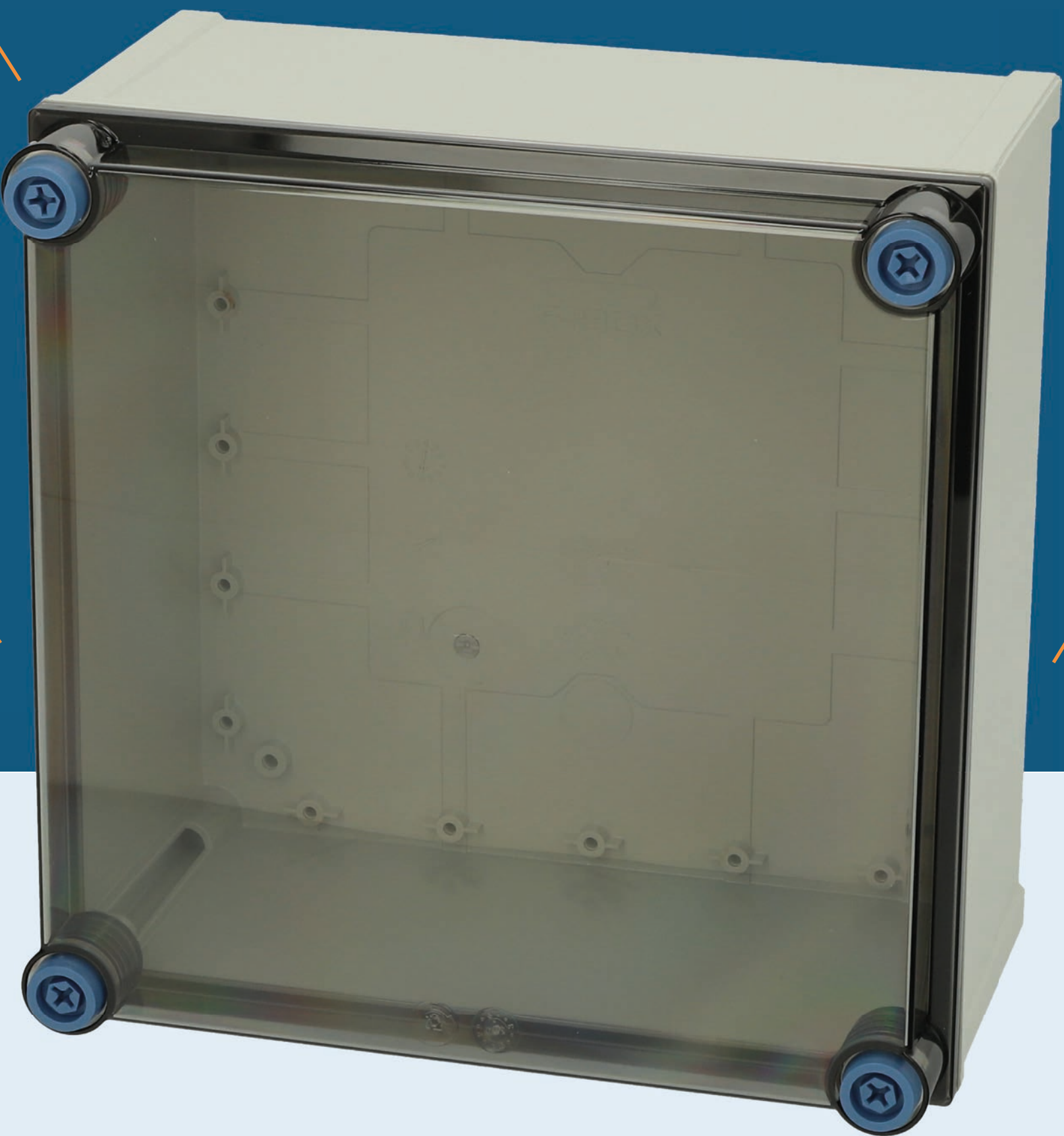
- Sizes from 300 x 200 x 170 mm to 600 x 600 x 270 mm
- PC & ABS
- Cover Grey or Transparent
- Cover screws, various versions

Benefits

- Supplied with "Quick" screw covers
- Tested from -40 to +80 degrees Celsius
- Totally insulated
- Good protection against tampering

Accessories

- Mounting set with cover screw attachments
- Mounting plate
- Din rail TS35
- Pivotal front plate



Target Customer / Markets / Applications

Target Application

- Agricultural Technology applications, Robotics, Automotive, Energy and Transportation, Cold Store environments, Industrial/OEM. Control and Switchgear. Din-Rail mounted products such as Circuit Breakers.
- Harsh industrial and outdoor environments like wet and Dusty atmospheres. Control and instrumentation applications. Offers easy maintenance as the covers can be opened and closed quickly.



Key Questions

1 | It's plastic, can't be as strong as steel?

QUICK PC is rated to IK08, similar to leading mild and stainless-steel enclosures.

2 | It's plastic, it won't last outdoors?

Yes, the Polycarbonate version will. It is UV-stabilised. Polycarbonate is long lasting and has been tested under UV to equivalent of 30 years exposure with no decrease in mechanical strength.

3 | Is there a transparent cover available?

Yes, the range includes a smoked transparent cover.

4 | Does the enclosure need an external Earth?

No, the enclosure range is totally Insulated.

5 | Is the material self-extinguishing?

The polycarbonate versions are compliant to UL 746C 5".

6 | Is the material free of Halogen?

Yes.

7 | Can the material be recycled?

Yes it can.

Competitors

Steel: Eldon STB GRP / ABS Spelsberg / Uriate

Eldon (mild steel)

The STB range are used only for indoor environments, IP66 and IK 08 rated.

Spelsberg

You will have to carry and stock 2 different enclosures; they do not offer the versatility of 1 item to support both interior and exterior. Interior enclosure is IP66 and IK07 rated, Exterior enclosure IP65 and IK08 rated.

Uriate

Very similar product to Fibox range, good IP and IK rating, ability to be installed indoors and outdoors. Min and Max temperature would need to be considered, to ensure durability of product in environment.

Unique Values Proposition

Versatility

- The QUICK range, quick in name, quick in ease of on installation.
- Offering a variety of accessories including Mounting plates, Front plates, and Din Rails.
- With a high IP and IK rating for both Polycarbonate and ABS the Quick is a great answer to many problems.
- Ability to offer an internal swing door, adjustable depth for the front panel and quick locking screw covers for protection.
- Dimensions are 300 x 200 x 170mm – 600 x 400 x 270 mm.

Product Line: **SOLID**

Features

- Sizes from 190 x 190 x 130 mm to 760 x 560 x 250 mm
- PC & ABS
- Cover Grey or Transparent

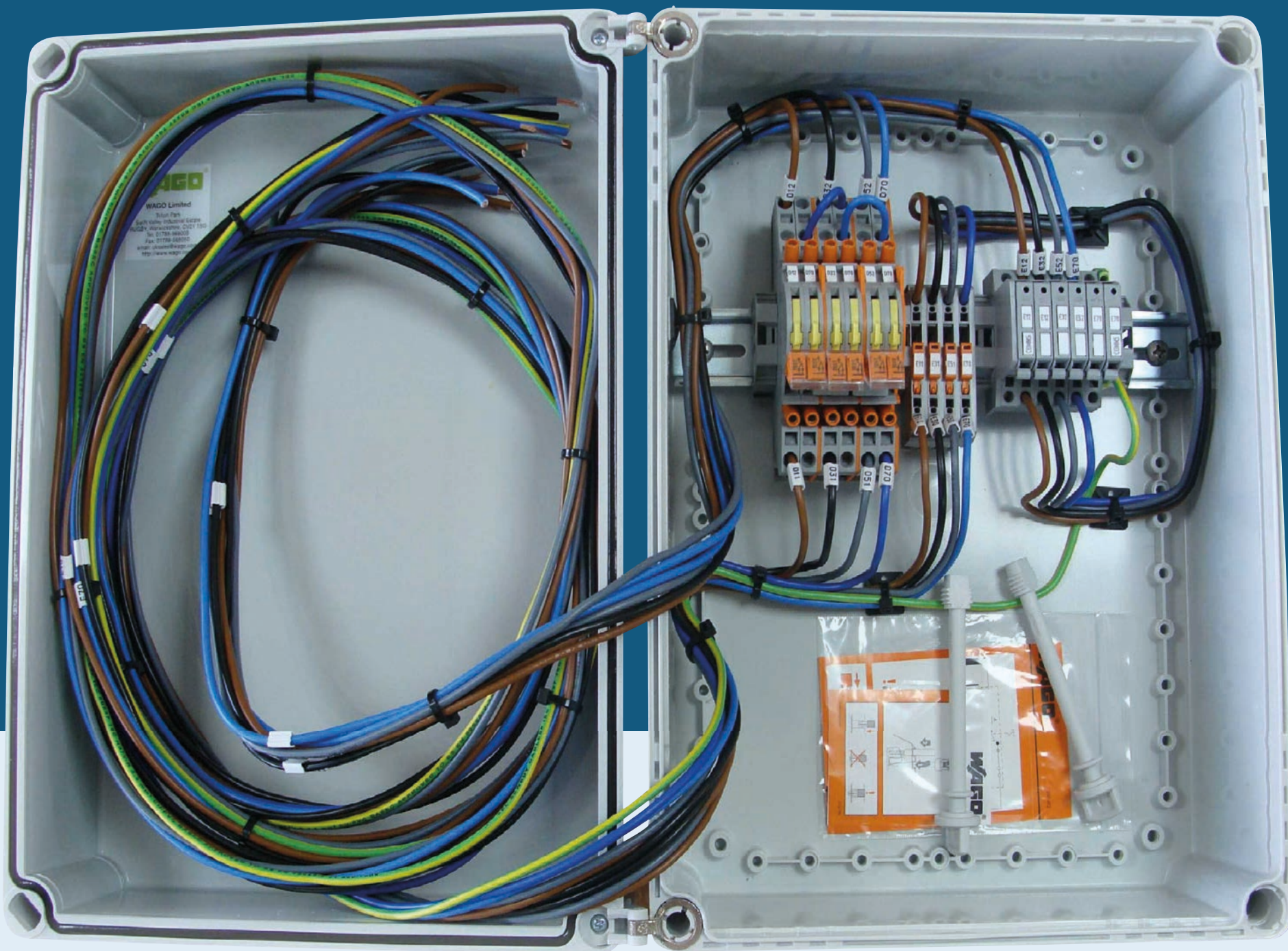
Benefits

- Wide opening hinges for easy access
- 2 heights of overs 30 & 80 mm
- Fastening lugs included

Target Customer / Markets / Applications

Target Application

- Remote data transmission/acquisition. Power Distribution. Industrial computers. CCTV Camera control. Machine & Automation control. Agricultural Technology electrical/electronic applications. Robotics.
- Harsh industrial and outdoor environments like Water and Dust.



Accessories

- Mounting plate
- Din rail 35 mm
- Extension frame

Rating

- PC and ABS IP66/67
- PC IK08 (side surface)
IK09 (front Surface)
- ABS IK08



Key Questions

1 | It's plastic, can't be as strong as steel?

SOLID PC is rated to IK08, similar to leading mild and stainless-steel enclosures.

2 | It's plastic, it won't last outdoors?

Yes, the Polycarbonate version will. It is UV-stabilised. Polycarbonate is long lasting and has been tested under UV to equivalent of 30 years exposure with no decrease in mechanical strength.

3 | Is the solid IK and IP rated?

Yes, IK0 and IP66 & IP67 and able to work in temperatures -40 and +120 degrees C.

4 | An external hinge can easily get damaged what can be done to prevent this?

The Fibox SOLID range has an internal hinge set available for the 30 mm high covers that maintains IP65.

5 | I want to mount an internal antenna but a steel mounting plate will interfere with the radio signal, what can be done?

The Fibox SOLID range has a perforated Polycarbonate mounting plate that is strong and quick to populate. Importantly, it is transparent to radio signals.

Competitors

ABS/PC: Ensto Cubo O Polyester
PC: Schneider – Thalassa PLS
Polyester/PC: Uriate – Safybox CA

Uriate

Polyester range. Heavier than polycarbonate. Polyester will delaminate over time exposing glass fibres. Smaller foot-print sizes – less room in box. Cover: polycarbonate, Base Polyester. Polyester mounting plate. Polyester is not recyclable. External hinge only.

Schneider

Only IP66, no IP67 available. Cover: PC, Base GR Polyester. Base is not recyclable material. External hinges only. GR Polyester is Heavy in comparison with PC. Polyester material will de-laminate over time exposing glass fibres.

Ensto

Very similar product to Fibox range, good IP and IK rating, ability to be installed indoors and outdoors. Min and Max temperature would need to be considered, to ensure durability of product in environment.

Unique Values Proposition

Versatility

- Dimensions are 190 x 190 x 130 – 760 x 560 x 250 mm.
- 2 heights of cover: 30 mm and 80 mm; hinged (30 mm) or screw variant in Grey opaque or Clear Transparent.
- Key lock option available.
- Offering a variety of accessories including Mounting plates, Din Rails and extension frames that increase overall depth and maintain IP Rating, Cylinder lock for 30 mm covers.
- With a high IP and IK rating for both Polycarbonate and ABS Solid is a great answer to many problems.

Product Line: **PICCOLO**

Features

- High quality surface for printing
- Narrow for space saving applications
- Sizes from 110 x 80 x 65 mm to 230 x 140 x 125 mm

Rating

- PC and ABS IP66/67
- ABS IK07
- PC IK08
- UL 746C 5V
- UL 508

Benefits

- Designed for push buttons
- Optimal design or terminal blocks

Accessories

- Fastening lugs
- Mounting plate
- Din rail different sizes TS 35

Target Customer / Markets / Applications

Target Application

- Electrical & Electronic Applications as well as fibre connection/terminal enclosures.
- Machine build, HVAC, Control & Instrumentation, Water & Waste Water, Telecoms.
- Pushbutton stations & Terminal Enclosures.



Key Questions

1 | It's plastic, can't be as strong as steel?

Piccolo PC is rated to IK08, similar to leading mild and stainless-steel enclosures.

2 | It's plastic, it won't last outdoors?

Yes, the Polycarbonate version will. It is UV-stabilised. Polycarbonate is long lasting and has been tested under UV to equivalent of 30 years exposure with no decrease in mechanical strength.

3 | Is the Piccolo IK and IP rated?

Yes, PC is IK08 and IP66 & IP67 and able to work in temperatures -40 and +120 degrees C.

4 | Can I mount an antenna inside?

Yes, both Polycarbonate and ABS are transparent to radio waves.

5 | Can Terminals be fitted inside?

Yes, Din rails are available as accessories to enable the fitting of terminals and other Din rail mounted components.

6 | Can I wall mount the enclosures?

Yes, the enclosures can either be mounted using the wall fastening lug accessories (FP 22046), or directly using the four corner ports which are outside the sealed area.

Competitors

Camden Boss X6 Series

Hammond 1554 series

Schneider – Thalassa TBS

Schneider

Only Available in ABS IP66 & IK07.

Hammond

NEMA 4 but not IP rated: 2 piece silicon gasket allows possibility of ingress failure.

Camden Boss

Very similar product to Fibox range, good IP and IK rating, ability to be installed indoors and outdoors. Min and Max temperature would need to be considered, to ensure durability of product in environment.

Unique Values Proposition

Versatility

- Dimensions range from 110*80*65 mm to 230*140*125 mm.
- Offering a variety of accessories including Mounting plates, Din Rails.
- Narrow enclosure profiles enable space-saving options.
- Small but robust, ideal for many indoor and outdoor applications where traditional enclosures would be too wide.

- PC: IP 66/67; IK 08; NEMA Type 1, 4X, 6, 12 and 13; UL 746C 5V; UL 508.
- ABS: IP 66/67; IK 07.

Product Line: **CARDMASTER**

Features

- Sizes from 166 x 160 x 80 mm to 390 x 316 to 167 mm
- Easy access
- Separate terminal wiring compartment
- Provided with metric knock outs

Rating

- ABS and PC IP65
- PC IK07 (side surface), IK08 (front surface)
- ABS IK07
- UL 746C 5

Accessories

- Fastening lugs available
- Internal mounting options included
- Din rail mounting facility included
- Front plate aluminium

Benefits

- Ability to keep terminals and power connections separate
- Electrically insulated
- Keeps wiring tidy

Target Customer / Markets / Applications

Target Application

- Gas monitoring and proving; Chemical dosing monitoring and control; temperature monitoring and control; Industrial process monitoring and control.
- Control and monitoring applications such as Process Control and machine efficiency monitoring.



CARDMASTER

Key Questions

1 | It's plastic, is it flame retardant?

Yes, the enclosures are tested to UL 746C 5" (5 inch flame test).

2 | It's plastic, it won't last outdoors?

Yes, Polycarbonate will. It is UV-stabilised. Polycarbonate is long lasting and has been tested under UV to equivalent of 30 years exposure with no decrease in mechanical strength.

3 | Is the Cardmaster IK and IP rated?

Yes, IK07 and the enclosures are tested to Ingress Protection IP65. They can withstand continuous temperature of between -40C to +80C.

4 | Is Cardmaster electrically insulating?

Yes, the enclosures are totally insulated

5 | Can I easily pass cables from the terminals up to the terminals on a mounted PCB?

Yes, although the terminal compartment has a separate screw down cover, there is a sufficient gap between the two compartments.

Unique Values Proposition

Versatility & Elegance

- Dimensions are 166x160x80 to 390x316x167 mm. Available in polycarbonate and ABS Versions.
- The range includes an elegant PC front frame for overlays, membrane switches and displays.
- A terminal compartment keeps the power cables and terminals separate.
- A hinged smoked transparent door keeps HMIs protected.
- IP65 with a unique hinged, smoked transparent cover.
- Provided with metric knock-outs.

Competitors

Bopla – Reglocard Plus

Multicomp – Pro

Multibox – Controller Card

Bopla

Similar product to Cardmaster but the latching mechanism for the transparent cover is made up of two spikes which may constitute a hazard. The Transparent cover is clear and offers little UV protection. Only available in Polycarbonate.

Multicomp

Only available in ABS with smoked PC hinged cover. Only sold through Major Internet Distributors in UK. Manufactured in Far East.

Multibox

Only 3 sizes available. Manufactured in ABS Min and Max temperature would need to be considered, problem with UV stability.



Product Line: **EURONORD**

Rating

- ABS and PC IP66/67
- PC IK07 (side surface), IK08 (front surface)
- ABS IK07

Features

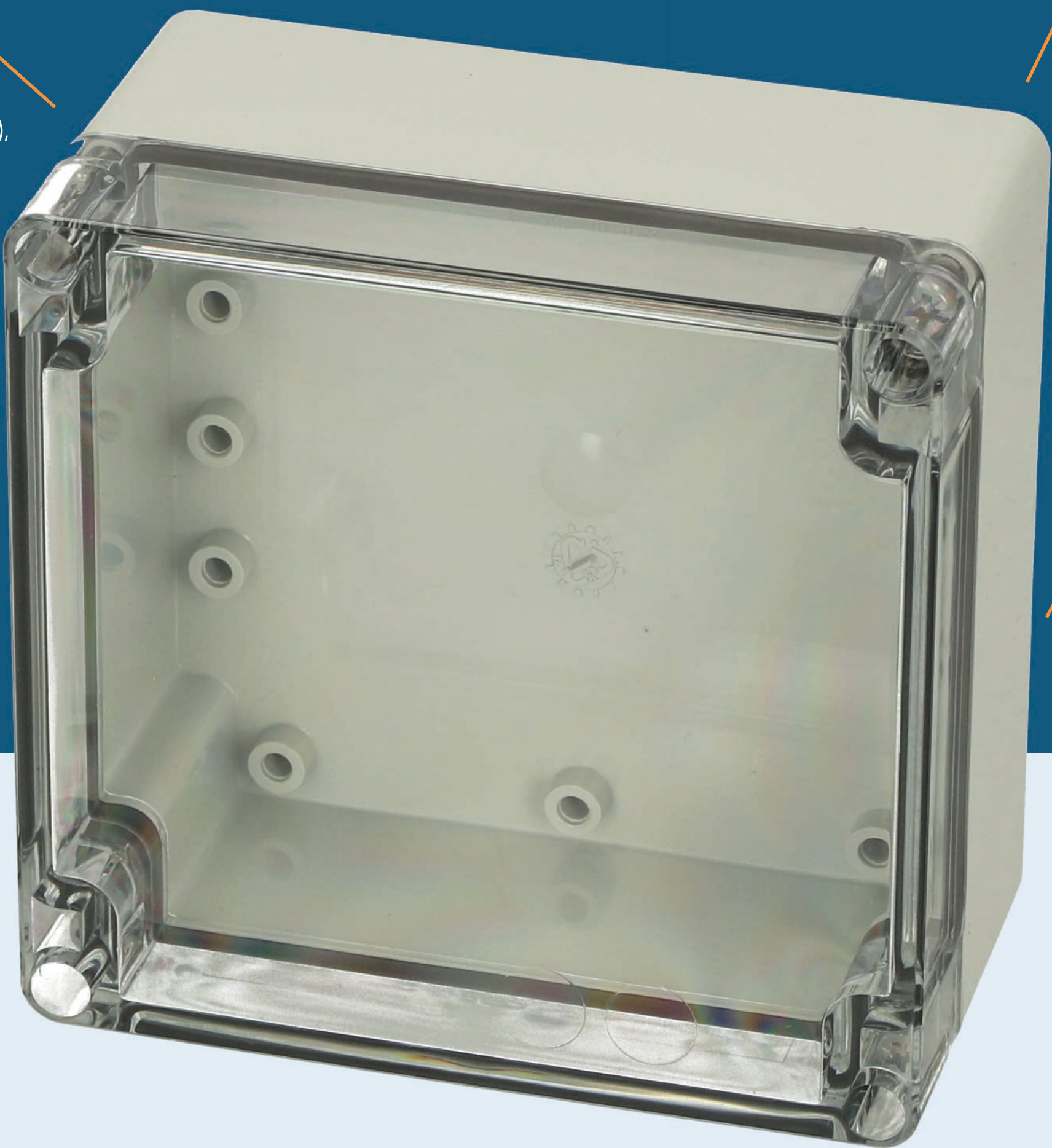
- Sizes from 50 x 52 x 40 mm to 360 x 400 x 151 mm
- Grey or transparent cover available
- Quick release cover screws

Benefits

- 170 standard sizes
- Designed to house Din Rail

Accessories

- Fastening lugs available
- Internal mounting options included
- Different sizes for Din Rail available
- Wall fastening lugs



Target Customer / Markets / Applications

Target Application

- Terminal enclosures for industrial applications such as machine and robot electrics. Instrument housing for applications in harsh and demanding environments. Often used in Marine applications where ingress protection is vital. Additionally, used to house remote monitoring equipment in exposed locations. The smallest version may house sensors.

Key Questions

1 | It's plastic, is it flame retardant?

Yes, the enclosures are tested to UL 746C 5" (5 inch flame test)

2 | It's plastic, it won't last outdoors?

Yes, Polycarbonate will. It is UV-stabilised. Polycarbonate is long lasting and has been tested under UV to equivalent of 30 years exposure with no decrease in mechanical strength.

3 | Is the Euronord range IK and IP rated?

Yes, the PC version bases are IK08 with the covers IK07, ABS versions is IK07 for base and cover.

4 | Is Euronord electrically insulating?

Yes, the enclosures are totally insulated.

5 | Why is Euronord shown as both IP66 and IP67?

The Euronord range is tested and certified to both IP66 and IP67.

6 | Can I fit Din Rail mounted components?

Yes, the Euronord range has mounting pods moulded into the base to take either a mounting plate or Din Rail.

7 | I want to fit a Din rail off-centre, can I do it?

Yes, there are several mounting pods set either side of the central pod to enable this.

Competitors

Bopla – Euromas

Multibox – MBI

Abtech – ZP

Bopla

Similar product to Euronord but only rated UL 94 V0 for fire retardancy. Stainless steel cover screws screw into brass threaded bushes in base, making recycling very difficult. Cover seal is a factory-fitted cord gasket which is not as effective as Fibox PUR seal.

Multibox

Only 13 footprint sizes available. Manufactured in PC but only offer IP66. Taller cover options but with unsightly shoulders at 4 corners.

Abrech

Sizes below 120x80x85 mm are not available. Also, max size is 300x230 a 110 mm. Only certified to IP65. Quarter-Turn cover screws rely on spring action to maintain IP rating.

Unique Values Proposition

Versatility & Elegance

- Dimensions are 52x50x40 to 360x400x151 mm. Available in polycarbonate and ABS Versions.
- The polycarbonate range features the option of clear transparent or grey opaque covers.
- There are many more internal mounting bosses within the enclosures than offered by the competition.
- Wall mounting can be achieved using ports outside the sealed area or by using a wall fastening lug set accessory.
- The Euronord range is tested and certified to IP66 and 67 with the PC range base certified to IK08.
- ABS versions are available.

Product Line: **EK**

Features

- Sizes from 190 x 190 x 130 mm to 760 x 560 x 250 mm
- Grey or transparent cover

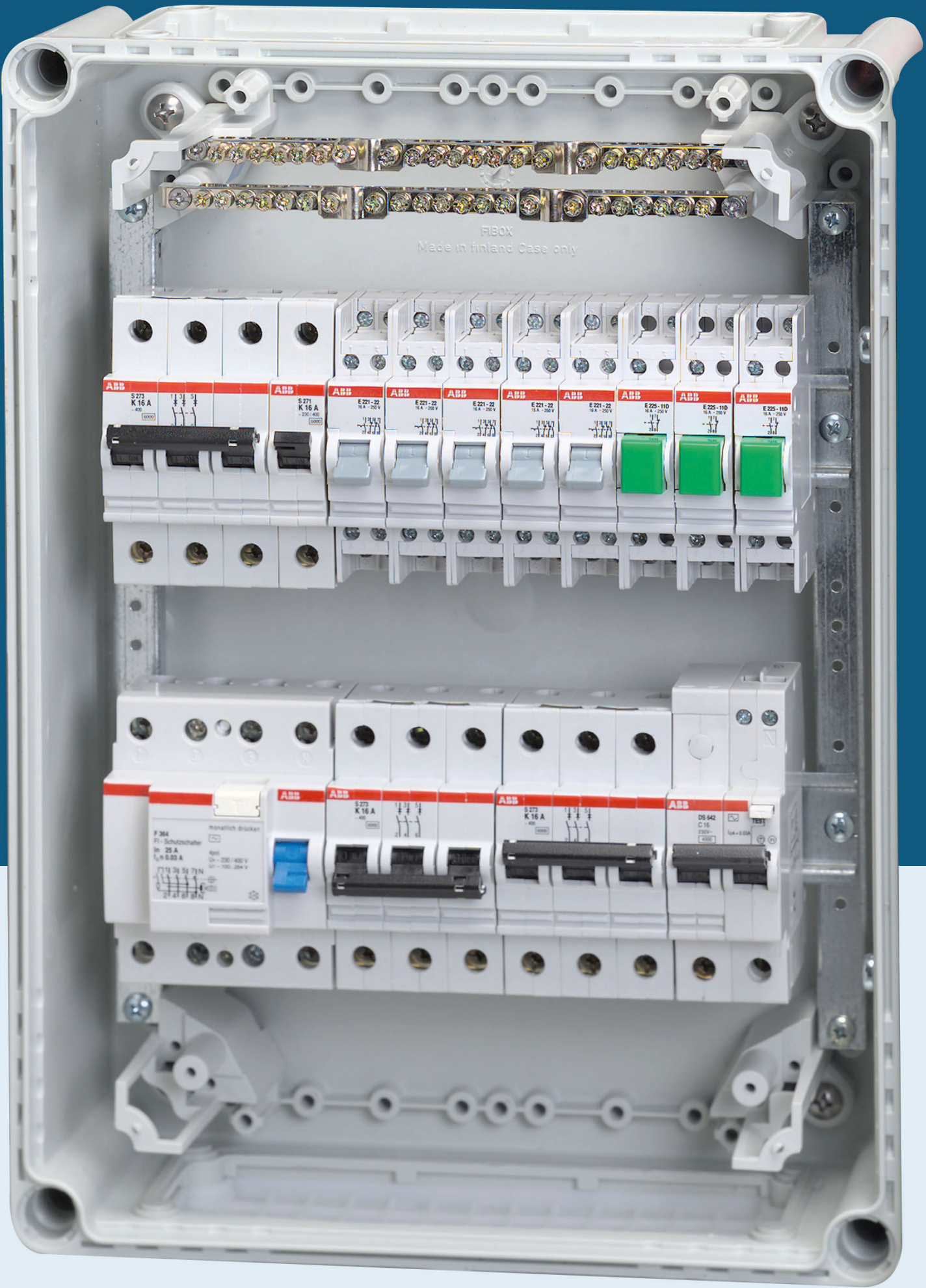
Rating

- PC IP66/67
- PC IK08 (side surface), IK09 (front surface)

Target Customer / Markets / Applications

Target Application

- Power generation. Remote data transmission/acquisition. Power Distribution. Industrial computers. CCTV Camera control. Machine & Automation control. Agricultural Technology electrical/electronic applications. Robotics. Engine rooms. Power & Comms for Highways.
- Power Distribution and Harsh industrial and outdoor environments.



Accessories

- Fastening lugs available
- Mounting plate
- Din rail different sizes TS 35
- Intermediate frame
- Membrane cable glands

Benefits

- Fully modular enclosure
- Ability to build up and out
- Knock outs on sides and top



Key Questions

1 | It’s plastic, can’t be as strong as steel?

EK is rated to IK08, similar to leading mild and stainless-steel enclosures.

2 | It’s plastic, it won’t last outdoors?

Yes, Polycarbonate will. It is UV-stabilised. Polycarbonate is long lasting and has been tested under UV to equivalent of 30 years exposure with no decrease in mechanical strength.

3 | Is the EK IK and IP rated?

Yes, IK0 and IP66 & IP67 and able to work in temperatures -40 and +120 degrees C.

4 | An external hinge can easily get damaged, what can be done to prevent this?

The Fibox EK range has an internal hinge set available for the 30 mm high covers that maintains IP65.

5 | I want to bring armoured cable up to the box EK strong enough not to deform?

The Fibox EK range is very strong but also has a wide Is range of Flanges that are bolted to the sides and can enhance the strength whilst providing knock-outs to accommodate glands.

Competitors

- ABS/PC: Ensto - Cubo O, Polyester
PC: Schneider – Thalassa PLS
PC: Hensel – MI Power Distribution

Hensel

Similar product to EK but knock-outs n base of box will not adequately support heavy or armoured cable. Flame retardant only to UL-V2. Side flanges are secured using a wedge – questionable stability and strength.

Schneider

Only IP66, no IP67 available. Cover: PC, Base GR Polyester. Base is not recyclable material. External hinges only. GR Polyester is Heavy in comparison with PC. Polyester material will de-laminate over time exposing glass fibres and is dangerous to machine.

Ensto

Very similar product to Fibox range, good IP and IK rating, ability to be installed indoors and outdoors. Min and Max temperature would need to be considered, to ensure durability of product in environment.

Unique Values Proposition

Versatility

- Dimensions are 190 x 190 x 130 – 760 x 560 x 250 mm.
- Wide range of flange plate accessories which include plain, with metric knock-outs, threaded knock-outs and membranes.
- 2 heights of cover: 30 mm and 80 mm; hinged (30 mm) or screw variant in Grey opaque or Clear Transparent.
- Cylinder Key lock option available on 30 mm covers.
- Offering a variety of accessories including Mounting plates, Din Rails and extension frames that increase overall depth and maintain IP Rating.

Product Line: **DIE CAST ALUMINIUM**

Features

- Sizes from 60 x 66 x 46 mm to 310 x 600 x 180 mm
- 4 mm walls suitable for metric threads
- Overlapping lip design for additional gasket cover
- Available in Painted or Unpainted versions

Rating

- IP66/67
- IK08
- IP68 (Painted Option)

Benefits

- Can be easily machined with earth connector fitted
- Pretreated before painting
- Offers good resistance to salt laden environments

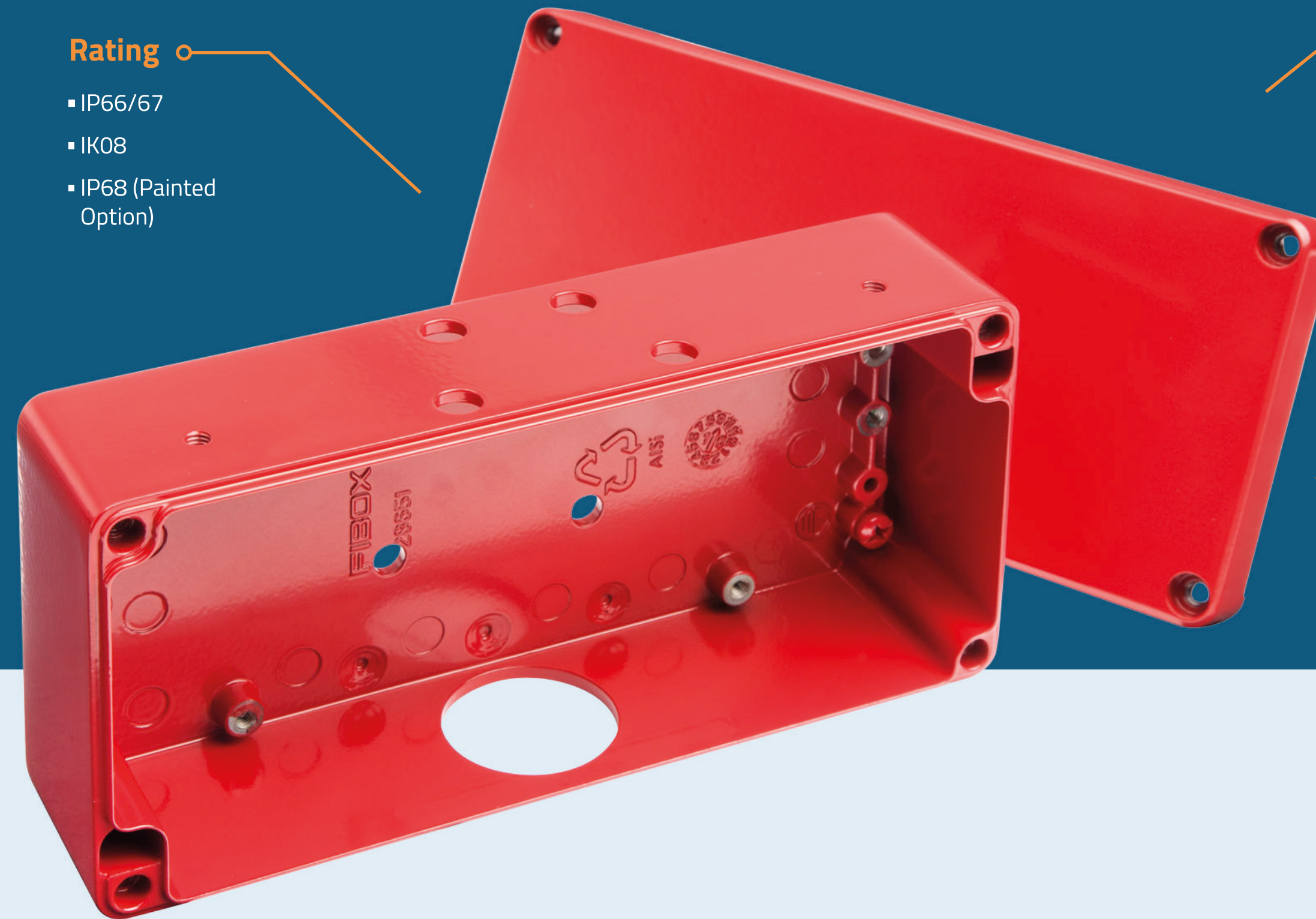
Accessories

- Fastening lugs included
- Mounting plates
- Din rail with mounting screws TS 15/TS 35

Target Customer / Markets / Applications

Target Application

- Mechanical engineering, machine building and automation technology. Used where EMC/RFI protection is important.
- Distributors, OEMs, System Integrators, Automation, Vehicle & Machine Builders, Contractors and End Users.



Key Questions

1 | Can the enclosures be earthed?

The enclosures can easily be machined with an earth connector fitted.

2 | Will the enclosures corrode outdoors?

The enclosures are pre-treated before painting to ensure good resistance against corrosion even in salt laded atmospheres.

3 | Can the walls of the boxes be tapped?

The enclosures have walls 4 mm thick which is more than thick enough for metric threads and will provide a firm fixing.

4 | Will the enclosures provide EMC protection?

The aluminium material provides natural resistance to the penetration of radio frequency radiation. The cover has a unique overlap protecting the seal and providing additional EMC/RFI protection.

5 | How about customising?

Fibox offers a full machining and customising service inhouse saving a customer time and money.

Competitors

**Phoenix Mecano / Abtech / Ce Tek /
Hammond / Deltron**

Phoenix Mecano

Manufactured in Hungary with a wide range of sizes available. Sold direct or through large distributors like RS Components in UK. Enclosures only sealed to IP66 but are rated IK09. Internally, they only have shoulder fixing on the two short ends.

Abtech

Manufactured in China and UK. The aluminium alloy is marine grade and highly resistant to corrosion. The ZAG range Enclosures only sealed to IP67. Impact resistance recorded at 7 NM which falls between IK08 and 09. Limited range of sizes.

Hammond

Canadian manufacturer. Wide range but smaller sizes. 1550 Series available in black or unpainted. Sells through distribution in UK. No interior mounting pods. IP66 with a removeable gasket.

Deltron

Offer several ranges similar to Hammond and with flanged option. The Fortis range offers IP66 and IP68. Not widely known. Distribution and direct sales.

Unique Values Proposition

Strength & Versatility

- Fibox die cast aluminium enclosures incorporate an overlapping lip designed into the cover providing additional protection to the gasket. This feature enables the enclosure to withstand high pressure jets of water without losing its ingress protection integrity. Hence the enclosures are rated IP66 / 67 and IP68. The IP68 ingress protection rating is for a maximum depth of 1.2 meters for a maximum period of 2 hours.
- Passed salt solution spray test of 5 % concentration for 500 hours and so are suitable for salt laden atmospheres.
- The enclosures incorporate unique internal mounting pods located on both short and long sides making them very versatile for positioning components within the enclosures.

- Fibox die cast aluminium enclosures are pre-treated with Surtec 650, hexavalent chrome-free passivation, prior to painting, a green solution to ensure a high resistance to corrosion.
- Fibox die cast aluminium enclosures provide a robust solution meeting IK08 and provide natural EMC/RFI protection.



Features

- High quality pressure die cast aluminium
- PUR Gasket
- Sealed to IP 66 /67 and 68
- Surtec 650 pre-treatment
- Aluminium
- Wide temperature range for continuous use -50°C - +80°C
- Internal mounting pods
- High Chemical resistance

Advantage

- Robust protection to IK08
- Suitable for low voltage applications: 1000 V AC / 1500 V DC
- Naturally sealed against RFI/EMC interference
- Light weight aluminium
- Excellent seal against the ingress of dusts and liquids
- Can be utilised in hostile environments where temporary flooding may take place
- Excellent resistance to corrosion and saline atmospheres
- Excellent base for painted finish
- Light weight
- Strong
- Easily machinable
- Aluminium naturally conducts heat away from internal components
- Can be used in hot and cold environments
- Can be used indoors and outdoors
- Components and Din Rails can be fitted exactly where needed
- Can be utilised in hostile environments

Benefits

- Excellent asset protection
- Many electrical applications
- Secured assets against radio interference
- Easy fitting
- Excellent asset protection
- Wide applications even in hostile environments
- Excellent asset protection and reduced maintenance
- Aesthetically good, can be painted corporate colours etc.
- Low cost for transportation
- Excellent asset protection
- Flexibility can save time and money
- Can be used anywhere - Indoor/Outdoor
- Maintains perfect seal, won't leak or allow water/dust ingress
- Versatile and wide-ranging applications
- No additional customising required
- Excellent asset protection and reduced down-times

What to ask the customer?

Primary questions

- | | |
|--|---------------------------------------|
| 1 Where it will be installed? | 6 The weight of internal equipment? |
| 2 What it will be used for? | 7 Aesthetics? |
| 3 How will it be mounted? | 8 The risk of physical damage? |
| 4 The type of environment? | 9 Internal accessibility? |
| 5 The degree of Ingress Protection Required? | |

Follow on questions

- | | |
|--|-----------------------------------|
| 1 Which standards apply? | 6 Safety Requirements? |
| 2 The maintenance requirements? | 7 Customising requirements? |
| 3 Controlling the operating temperature? | 8 Importance of sustainability? |
| 4 Accessories? | 9 End of life requirements? |
| 5 Security requirements? | |

THANKS FOR YOUR ATTENTION

Feel free to contact us.

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