



**FIBOX**  
Enclosing innovations



**Fibox Cardmaster**

# FIBOX CARDMASTER

## Safe and Secure Enclosure Solutions

The all new, IP 65 rated, Fibox Cardmaster family of enclosures is designed to provide the ultimate solution to instrumentation packaging. Ideal for measurement, monitoring and process control equipment, Cardmaster looks good and performs well. Modern, durable materials are combined with an easy and reliable locking system and transparent door options, to house and protect instrumentation and electronics. PCB guides, knock-outs, a terminal wiring compartment and wall mounting options make installing and using a Cardmaster easy.

- IP 65 rated
- Impact resistant polycarbonate or ABS
- Easy and reliable locking system
- Separate compartment for terminal wiring
- New transparent door
- Variety of wall mounting options
- Built in PCB card guides
- Wide range of models, sizes and accessories
- Safe design
- No sharp edges when opened
- Special knock-outs available with special mould
- RoHS compliant



### ENCLOSURES



#### ENCLOSURES WITHOUT MAIN COVER



Order symbol	Code	Size mm
PC 17/16-LC3	7520104	166 x 160 x 80
ABS 17/16-LC3	7580104	166 x 160 x 80
PC 17/16-C3	7520080	166 x 160 x 108
ABS 17/16-C3	7580080	166 x 160 x 108
PC 21/18-C3	7520081	213 x 185 x 90
ABS 21/18-C3	7580081	213 x 185 x 90
PC 25/22-C3	7520141	257 x 219 x 122
ABS 25/22-C3	7580141	257 x 219 x 122
PC 30/25-C3	7520031	314 x 260 x 95
ABS 30/25-C3	7580031	314 x 260 x 95
PC 36/31-C3	7520032	383 x 316 x 134
ABS 36/31-C3	7580032	383 x 316 x 134

**Including:** Enclosure base, terminal compartment cover, wall fastening cover plug and mounting screws.

#### ENCLOSURES WITH SMOKED GREY TRANSPARENT COVER



Order symbol	Code	Size mm
PC 17/16-L3*	7525105	188 x 160 x 106
ABS 17/16-L3	7585105	188 x 160 x 106
PC 17/16-3*	7525165	188 x 160 x 134
ABS 17/16-3	7585165	188 x 160 x 134
PC 21/18-3*	7525154	235 x 185 x 119
ABS 21/18-3	7585154	235 x 185 x 119
PC 25/22-3	7525134	280 x 219 x 156
ABS 25/22-3	7585134	280 x 219 x 156
PC 30/25-3	7525019	320 x 260 x 129
ABS 30/25-3	7585019	320 x 260 x 129
PC 36/31-3	7525020	390 x 316 x 167
ABS 36/31-3	7585020	390 x 316 x 167

**Including:** Enclosure base, transparent cover, terminal compartment cover, polyamide hinges, locking devices, wall fastening cover plug and mounting screws.

### ACCESSORIES

#### MOUNTING PLATES

Order symbol	Code	Size mm
MP 17/16	7720071	136 x 133
MP 21/18	7720035	142 x 200
MP 25/22	7720140	225 x 175
MP 30/25	7720033	282 x 215
MP 36/31	7720036	345 x 258

#### FRONT PLATES

Order symbol	Code	Size mm
FP 17/16	7720070	158 x 98
FP 21/18	7720026	205 x 117
FP 25/22	7720139	250 x 150
FP 30/25	7720027	289 x 189
FP 36/31	7720028	354 x 224

#### FRONT PLATE FRAMES, IP 65

Screw fastening, polycarbonate

Order symbol	Code	Size mm
FC PC 17/16	7720102	166 x 106 x 16
FC PC 21/18	7720100	213 x 125 x 20
FC PC 25/22	7720111	257 x 157 x 30
FC PC 30/25	7720112	296 x 196 x 30

#### COVERS

Smoked transparent covers (PC, PUR Gasket)

Order symbol	Code	Size mm
CM 17/16-3T	7720123	187 x 106 x 30
CM 21/18-3T	7720122	233 x 125 x 31
CM 25/22-3T	7720134	279 x 157 x 36
CM 30/25-3T	7720094	318 x 196 x 36
CM 36/31-3T	7720113	386 x 233 x 37

Clear transparent covers (PC, PUR Gasket)

Order symbol	Code	Size mm
CM 17/16-3TT	7720223	187 x 106 x 30
CM 21/18-3TT	7720222	233 x 125 x 31
CM 25/22-3TT	7720234	279 x 157 x 36
CM 30/25-3TT	7720294	318 x 196 x 36
CM 36/31-3TT	7720213	386 x 233 x 37

## ENCLOSURES WITH CLEAR TRANSPARENT COVER



Order symbol	Code	Size mm
PC 17/16-L3TT	7526105	188 x 160 x 106
ABS 17/16-L3TT	7586105	188 x 160 x 106
PC 17/16-3TT	7526165	188 x 160 x 134
ABS 17/16-3TT	7586165	188 x 160 x 134
PC 21/18-3TT	7526154	235 x 185 x 119
ABS 21/18-3TT	7586154	235 x 185 x 119
PC 25/22-3TT	7526134	280 x 219 x 156
ABS 25/22-3TT	7586134	280 x 219 x 156
PC 30/25-3TT	7526019	320 x 260 x 129
ABS 30/25-3TT	7586019	320 x 260 x 129
ABS 36/31-3TT	7586020	390 x 316 x 167
PC 36/31-3TT	7526020	390 x 316 x 167

**Including:** Enclosure base, transparent cover, terminal compartment cover, polyamide hinges, locking devices, wall fastening cover plug and mounting screws.

## ENCLOSURES WITH POLYCARBONATE FRONT FRAME



Order symbol	Code	Size mm
PC 17/16-LFC3*	7520204	166 x 160 x 89
PC 17/16-FC3*	7520280	166 x 160 x 118
PC 21/18-FC3*	7520281	213 x 185 x 102
PC 25/22-FC3	7520241	257 x 219 x 135
PC 30/25-FC3	7520231	314 x 260 x 110

**Including:** Enclosure base, terminal compartment cover, closed PC frame front plate with cover screws and mounting screws.

## HINGE AND LATCH SETS

Large enclosures (30/25-36/31) without main cover can be changed to hinged versions by ordering cover and hinge&latch set.

Order symbol	Code
SET 17/16-21/18-3	7720417
SET 25/22-3	7720424
SET 30/25-3	7720418
SET 36/31-3	7720419

## WALL FASTENING LUG

FP 10674	5510674
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## FASTENING LUG SET FOR DIN RAIL

MB 20064 SET	7720464
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## MOUNTING SCREWS

SET CM PLATE	7720566	incl. 8 mounting screws and 2 locking screws
SET CM FRAME	7720150	incl. wall mounting cover plug and 4 mounting screws

## CUSTOMISED ENCLOSURES AND SPECIAL COLOUR MOULDING



All Fibox enclosures can be customised to the customer's requirements by employing modern machinery available at all major Fibox customer service centres. CAD drawing files of standard enclosures are available at [www.fibox.com](http://www.fibox.com). Factory technical assistance is also available to aid the engineer with creating the most cost-effective customisation that will meet his needs. Buying a customised enclosure from Fibox insures ongoing consistency and quality.

Local Fibox customisation service centre move the Fibox factory closer to the customer's location, which means improved and faster service, with lower costs.

Where machining eases the mounting and other usability of the final product and shortens the production time at the Fibox customer, colouring is a recommendable way of increasing brand identity. Even colouring some parts of the whole enclosure can give a nice touch.

Custom colour moulding is feasible for batches of 500 pieces and becomes truly cost effective for single moulding runs of 1000 units or more.

CARDMASTER technical information			Conformity to standards
Property	Polycarbonate (PC)	ABS	
Ingress Protection (EN 60529)	IP 65	IP 65	<b>USA</b> Enclosures for Electrical Equipment PC: UL Type 1, 4X* or 12K; UL File E75645 Vol 1 Sec 5; UL 746C-5VA flame test (UL 50/508) *PC 17/16L, 17/16 and 21/18: -3 and -FC3 -models ABS: NEMA 1, 12K  <b>Canada</b> Industrial Control Equipment Enclosures for Electrical Equipment/ ULc  <b>Europe</b> Empty enclosures for low-voltage switchgear and controlgear assemblies EN 62208:2003 (50298:1998)  <b>Europe</b> Safety of Information Technology Equipment EN 60950  RoHS directive 2002/95/EC  <b>Russia</b> GostR - Gost Russian certificate of conformity
Impact Resistance (EN 62262)	IK 07 (side surface)	IK 07	
Temperature Range Celsius (short term)	-40° .. 120°C	-40° .. 80°C	
Temperature Range Fahrenheit (short term)	-40° .. 250°F	-40° .. 175°F	
Temperature Range Celsius (continuous)	-40° .. 80°C	-40° .. 60°C	
Temperature Range Fahrenheit (continuous)	-40° .. 175°F	-40° .. 140°F	
Electrical Insulation	Totally insulated ☑	Totally insulated ☑	
Light Grey Parts Colour	RAL 7035, Industry Grey	RAL 7035, Industry Grey	
Transparent Clear PC Cover	Smoked Grey or Clear	Smoked Grey or Clear	
Latches (PA)	RAL 5023	RAL 5023	
Gasket	PUR/EPDM	PUR/EPDM	
Enclosure Flammability Rating	UL 94-5V	UL 94HB	
Glow Wire Test (IEC 695-2-1) Self-extinguishing (PC)	960°C	650°C	
Non-toxicity	Halogen Free	Halogen Free	
UV resistance	UL 508 720 hours in "Weatherometer"		
Chemical Resistance <sup>1</sup>	Good	Good	

Data subject to change without notice. <sup>1</sup> Consult separate raw material data for more detailed information

## Fibox Enclosures

Fibox, a privately owned Finnish company, is one of the largest enclosure manufacturers in the world, and is the market leader in thermoplastic enclosures used for protecting electrical and electronic components operating in hostile environments. Fibox enclosures are manufactured in modern factories located in Finland, Germany, China and Republic of Korea.

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