

Comfort Panel

Features



Individual in terms of dimensions, specifications and design – these are the distinguishing features of the success story behind Rittal's range for the human/machine interface. With new user benefits, the Rittal Comfort Panel is a refinement of and a convincing addition to the Command Panels VIP 6000 and Optipanel.

B
1.4
Comfort Panel

Design and protection



All-round soft profile
minimises the risk of injury.

Design section
Variant for individual design according to customer requirements.

Designer handle
as an accessory.

Perfect in every detail



Keyboard housing
vertically hinged via frame connector. Also suitable for retrofitting.

Flat front frame section
Optimum access to integral drives.

Hinges on the outside – Two functions supported:
1. Front frame for removal in case of servicing.
2. Door protection via symmetrical arrangement of the hinges.

Assembly made easy



All-round uniform mounting channels
External and internal mounting of accessories such as earthing

plate or mousepad support via the use of spring nuts in the mounting channels.

Front panel installation from the rear via screw/grub screw.

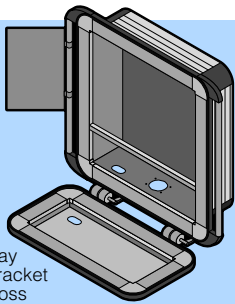
Endless diversity. . .

The following examples are just a small selection of the numerous opportunities afforded by the Rittal Comfort Panel. Over the next few pages, compile your own individual enclosure, step-by-step. We look forward to seeing which solution will suit you best.



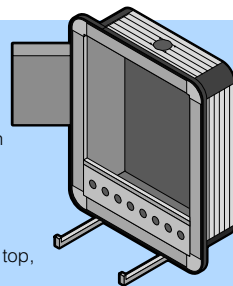
Example A

- Operating housing, 152 mm deep
- Keyboard housing, 35 mm deep, with cable tube
- Frame connector, adjustable
- Handle set, vertical and display board with wall bracket
- With horizontal cross member
- Support arm connection CP-L bottom, Ø 130 mm



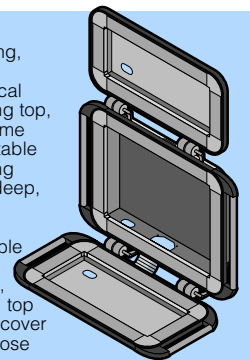
Example B

- Operating housing, 191 mm deep
- With spacing panel and built-in trim panel
- Clipboard
- Utility bars, vertically hinged
- Support arm connection CP-L top, Ø 130 mm



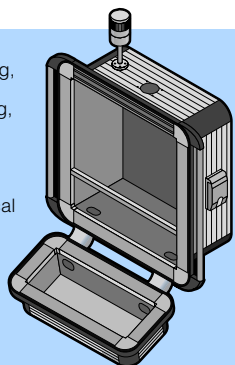
Example C

- Operating housing, 74 mm deep
- Handle set, vertical
- Keyboard housing top, 35 mm deep, frame connector adjustable
- Keyboard housing bottom, 35 mm deep, frame connector adjustable
- Cable tube, flexible
- Support arm connection CP-L, 120 x 65 mm, top and bottom with cover plate supplied loose



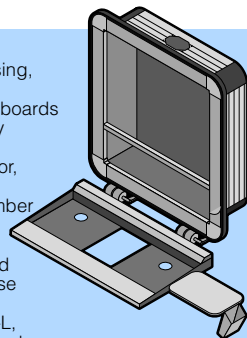
Example D

- Operating housing, 230 mm deep
- Keyboard housing, 113 mm deep
- Design strip, top
- Enclosure duct connector
- Handle set, vertical
- Interface flap
- Signal light
- Support arm connection CP-L top, Ø 130 mm



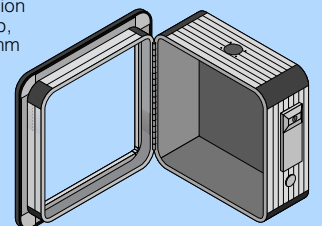
Example E

- Operating housing, 113 mm deep
- Support for keyboards with cable entry grommet
- Frame connector, adjustable
- With cross member
- Support for mousepad, vertically hinged
- Holder for mouse
- Support arm connection CP-L, 120 x 65 mm, top



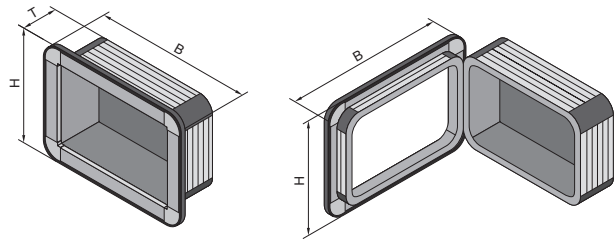
Example F

- Operating housing, 191 mm deep, hinged
- Interface flap
- USB extension
- Support arm connection CP-L top, Ø 130 mm



Comfort Panel

Operating housings, standard sizes



1.4
Comfort Panel

Material:
Enclosure:
Extruded aluminium section
Corner pieces:
Die-cast zinc
Corner protectors:
Self-extinguishing plastic
Rear panel:
Aluminium

Surface finish:
Enclosure and rear panel:
Natural-anodised
Corner pieces:
Powder-coated in finely-textured
RAL 7035
Corner protectors:
Dyed similar to RAL 7024

Protection category:
IP 65 to EN 60 529/09.2000
(if the openings in the enclosure
are covered or sealed in accord-
ance with the protection cate-
gory).

Accessories:

Keyboard housing,
see page 195.
Support arm systems,
see page 237.

Detailed drawing,
see page 1200 – 1201.

		Operating housing						
To fit front panels	Width x height mm	482.6 (19") x 310.3 (7 U)					430 x 343	482.6 (19") x 354.8 (8 U)
To fit TFT monitor, see page 1133		-	-	-	-	-	6450.010 6450.030 6450.070 6450.120 6450.150	6450.020 6450.040 6450.080 6450.130 6450.160
Installation depth		74	113	152	191	308	74	
Width (B) mm		591					538	591
Height (H) mm		419					452	464
Depth (T) mm		92	131	170	209	326	92	
Support arm connection		Model No. CP						
CP-L (see page 250)		120 x 65 mm 1.4	120 x 65 mm 1.4	130 mm 1.1	130 mm 1.1	130 mm 1.1	120 x 65 mm 1.4	120 x 65 mm 1.4
Top or bottom, by rotating the enclosure	1	6371.000	6371.220	6371.030	6371.060	6371.090²⁾	6371.120	6371.150
Top, with cable tube cut-out at the bottom ¹⁾	1	6371.010	6371.230	6371.040	6371.070	6371.100²⁾	6371.130	6371.160
Bottom, with cable tube cut-out at the bottom ¹⁾	1	6371.020	6371.240	6371.050	6371.080	6371.110²⁾	6371.140	6371.170
Weight (kg)		7.4	9.6	10.5	13.3	18.3	7.2	7.8
Front frame hinged		-	-	-	■	■	-	-
Rear panel	Hinged	■	■	■	■	■	■	■

¹⁾ Extended delivery times.

²⁾ Enclosure with fins at the sides to boost the dissipation of heat.

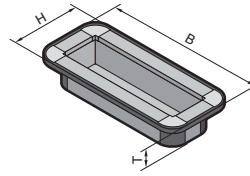


Interface flaps
as programming interface,
for maintenance access and
for connecting to network
structures.
Model No. see page 1150.



**Housing coupling
for desktop mounting**
Model No. see page 273.

Keyboard housings, standard sizes



Material:

Enclosure:
Extruded aluminium section
Corner pieces:
Die-cast zinc
Corner protectors:
Self-extinguishing plastic
Rear panel:
Aluminium

Surface finish:

Enclosure and rear panel:
Natural-anodised
Corner pieces:
Powder-coated in finely-textured
RAL 7035
Corner protectors:
Dyed similar to RAL 7024

Protection category:

IP 65 to EN 60 529/09.2000
(if the openings in the enclosure
are covered or sealed in accord-
ance with the protection cate-
gory).



Accessories:

Operating housings,
see page 194.

Detailed drawing,
see page 1202.

		Packs of	Keyboard housing			
To fit front panels	Width x height mm		482.6 (19") x 155 (3.5 U)	482.6 (19") x 177 (4 U)	482.6 (19") x 155 (3.5 U)	482.6 (19") x 177 (4 U)
Installation depth			74		113	
Width (B) mm			591		591	
Height (H) mm			264	286	264	286
Depth (T) mm			92		131	
Cable tube cut-out			Model No. CP			
Without		1	6371.180	6371.200	6371.250	6371.270
With		1	6371.190¹⁾	6371.210¹⁾	6371.260¹⁾	6371.280¹⁾
Weight (kg)			5.7	5.9	8.0	8.2
Rear panel	Screw-fastened		■	■	■	■

¹⁾ Extended delivery times.



USB/RJ 45 extension

Model No. see page 1150.



Frame connector, adjustable

for Comfort Panel,
Model No. see page 977.

Comfort Panel

Installation criteria

1. Panel dimensions

For operating and keyboard housings

For your own sizes/variants, please state the width (B) x height (H) x depth (T) of the control components and the manufacturer/model on the enquiry/order form.

Checking the installation criteria

Subject to compliance with criteria 1 to 4, front panels/panels may be mounted directly with the appropriate mounting kits, see page 1122. If these criteria are not met, installation via an adaptor panel is possible – see 2.2, version code 3.

B Width of front panel

Different widths of operating and keyboard housings are possible (whereby only the keyboard housing may be wider than the operating housing).

For minimum size, refer to minimum front panel width under technical details, page 1203.

H Height of the front panel/panel

1 Distance from centre of hole/bolt to outer edge of front panel
8.5 to 15 mm

2 Front panel projection
– on sides with attachment, see drawing below
– from seal at least 6.5 mm

3 Front panel thickness

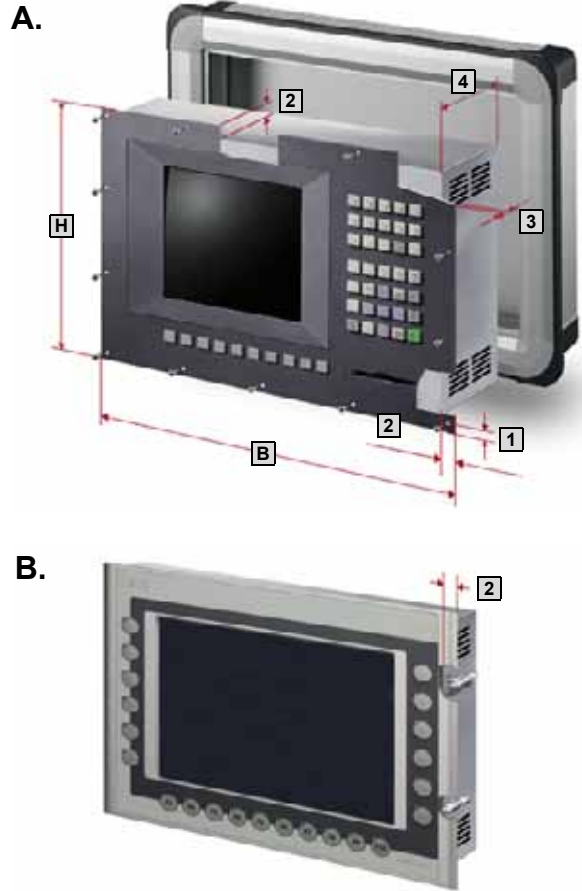
4 Installation depth

Operating housing =
74 mm, 113 mm, 152 mm,
191 mm¹⁾, 230 mm¹⁾,
269 mm¹⁾, 308 mm¹⁾,
347 mm¹⁾, 386 mm¹⁾,
425 mm¹⁾, 464 mm¹⁾

Keyboard housing =
35 mm, 74 mm, 113 mm

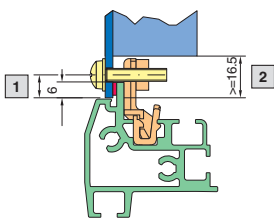
¹⁾ Also with hinged front frames. For versions with a hinged rear panel and cam lock, the maximum installation depth is reduced by 27 mm in the vicinity of the lock.

Note:
Load information for installed equipment, see page 1214.

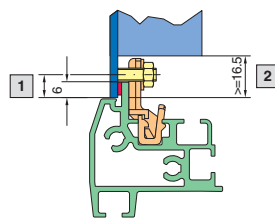


A. Front panel/Panel installation:

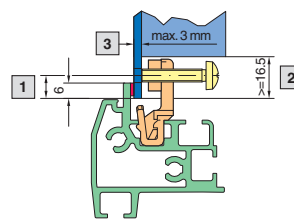
From the front via screw



From the front via studs



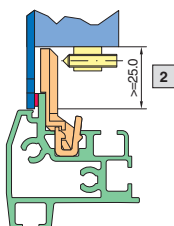
From the rear via screw/grub screw



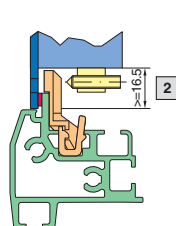
- Frame section
- Front panel
- Seal
- Screw clamp
- Retaining claw
- Enclosure/controller

B. Front panel/Panel installation from the front via screw clamp:

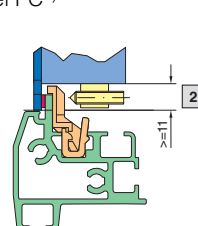
Long retaining claw
e.g. Siemens Sinumerik OP 012²⁾



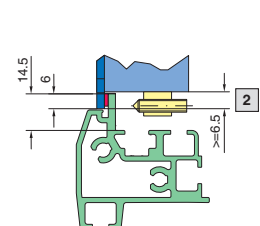
Medium retaining claw
e.g. Siemens Simatic MP 377 12" keys, horizontal²⁾



Short retaining claw
e.g. Siemens Simatic MP 377 12" keys, vertical²⁾
B&R Automation Panel, Panel PC²⁾



Without retaining claw
e.g. Phoenix Contact PPC 5115



²⁾ For more panels suitable for installation, see page 1122.

It's so easy!

We need the following three pieces of information in order to deal with your enquiry/order:

- Model No.: CP 6372.009
- The dimensions and number of panels/ front panels to be installed in the keyboard/operating housing
- Design code number

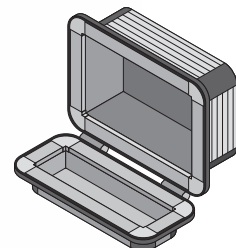
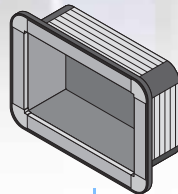
2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8

Comfort Panel configurator,
see page 227,
or on our website at
www.rittal.com/configurator

Operating/keyboard housing

Model No. CP

6 **3** **7** **2** . **0** **0** **9**



Material:

Enclosure:
Extruded aluminium section
Corner pieces:
Die-cast zinc
Corner protectors:
Plastic, self-extinguishing

Surface finish:

Enclosure: Natural-anodised
Corner pieces:
Powder-coated in finely-textured RAL 7035
Corner protectors:
Dyed similar to RAL 7024

Protection category:

IP 65 to EN 60 529/09.2000 (if the openings in the enclosure are covered or sealed in accordance with the protection category).

Comfort Panel

Selection: Operating housing/keyboard housing

2.1 Installation depth

Note:
Support arm connection see 2.5.
Drawing view from above.
R/h hinge is also possible.

Detailed drawing,
see page 1200.



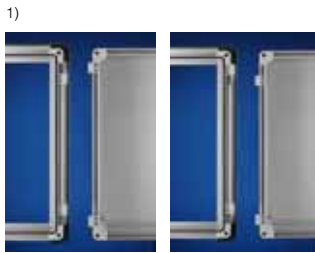
One-piece



Screw-fastened



Hinged¹⁾



Secured =
As delivered

Removable =
Replace C
with D in the
code number

²⁾ Prepared for support arm connection CP-L 120 x 65 mm

Installation depth
74 mm²⁾



2.1
A1

Installation depth
152 mm



2.1
A2

Installation depth
113 mm²⁾



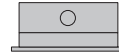
2.1
A3

Installation depth
191 mm



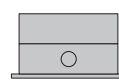
2.1
B1

Installation depth
230 mm



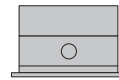
2.1
B2

Installation depth
308 mm



2.1
B3

Installation depth
347 mm



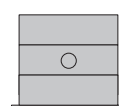
2.1
B4

Installation depth
386 mm



2.1
B5

Installation depth
464 mm



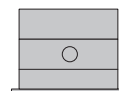
2.1
B6

Installation depth
269 mm²⁾



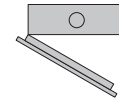
2.1
B7

Installation depth
425 mm



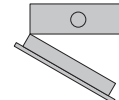
2.1
B8

Installation depth
191 mm



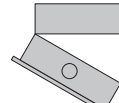
2.1
C1

Installation depth
230 mm



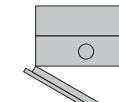
2.1
C2

Installation depth
308 mm



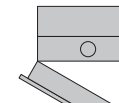
2.1
C3

Installation depth
347 mm



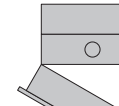
2.1
C4

Installation depth
386 mm



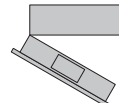
2.1
C5

Installation depth
464 mm



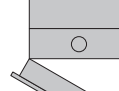
2.1
C6

Installation depth
269 mm²⁾

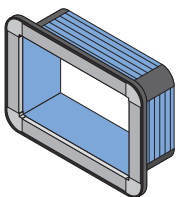


2.1
C7

Installation depth
425 mm



2.1
C8



2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8
-----	-----	-----	-----	-----	-----	-----	-----

Selection: Operating housing/keyboard housing

2.2 Front design

! Also required:

Mounting kit for installing front panels, operating panels and keyboards in operating and keyboard housings, see page 1122.

¹⁾ Detailed drawing, see page 1202.



Without cross member

2.2
0

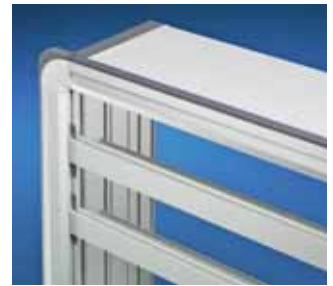


With one cross member¹⁾

For horizontal and/or vertical division of the Command Panel front. With mounting channel on both sides to accommodate mounting kits, see page 1122.

Material:
Extruded aluminium section, natural-anodised

2.2
1



With two cross members¹⁾

2.2
2



With an adaptor plate (to specification)

Material thickness:
3 mm aluminium, natural-anodised.

Please specify the dimensions for the front panel and the desired holes and cut-outs.

2.2
3



With spacing and built-in trim panel¹⁾, at the top

For additional space for cable entry and for installing switches/indicator lights, emergency off/key switches, CD-ROM/disk drives, interfaces, interface flaps etc.

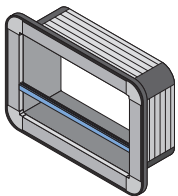
Material:
Extruded aluminium section, natural-anodised

2.2
4



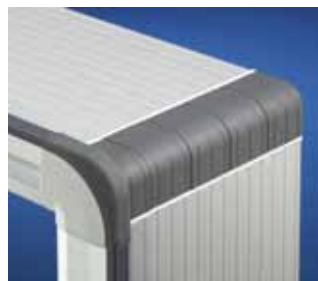
With spacing and built-in trim panel¹⁾, at the bottom

2.2
5



2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8

2.3 Cooling fins



No fins

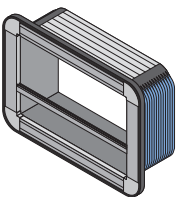
2.3
0



Fins at sides

To boost the dissipated heat loss with an installation depth of 74 mm or more. Guidelines for dissipatable heat loss, see page 227.

2.3
1



2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8

Comfort Panel

Selection: Operating housing/keyboard housing

2.4 Design strip

Material:
Transparent plastic

Note:
Label/colour-coded strips:
Your dimensions:
max. H = 14.5 mm and
thickness = 0.8 mm

Detailed drawing,
see page 1202.



Without

2.4
0



Top

2.4
1



Bottom

2.4
2



Top and
bottom

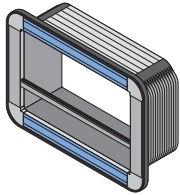
2.4
3



All-round
Without cooling
fins

2.4
4

With cooling fins
for 191 + 347 mm
installation depth



2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8

Comfort Panel

1.4

2.5 Support arm and pedestal connection

Users may choose from 4 different support arm systems, see page 237, and a variety of stand systems, see page 286.

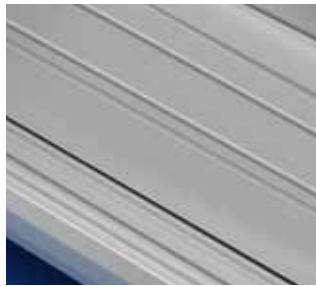
Detailed drawing,
see page 1200.

¹⁾ Including a cover plate for sealing the unused section.

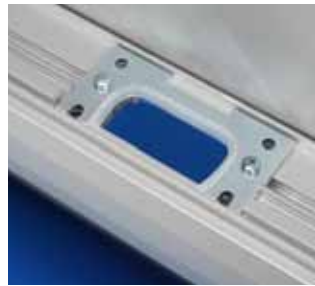
²⁾ Support arm connection

for the narrow variant of connection plate 6528.420, see page 274, housing coupling for desktop mounting 6528.400, see page 273, by additionally specifying the code number: **A**

for the wide variant of connection plate 6528.430, see page 274, housing coupling for desktop mounting 6528.410, see page 273, by additionally specifying the code number: **B**

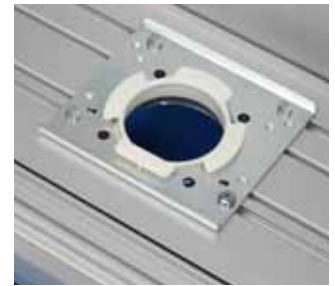


Without support arm
connection



CP-L □ 120 x 65 mm
Installation depth 74 mm,
113 mm, 269 mm

CP-L, see page 250/1.4
CP-S, see page 242/3.3

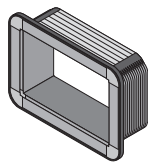


CP-L Ø 130 mm
Installation depth 152 mm
and above

CP-L, see page 250/1.1
CP-XL, see page 268/1.3
CP-Q, see page 280/1.3.

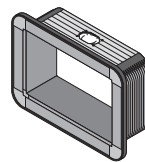
Without connection

2.5
0



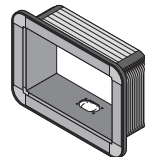
Connection top

2.5
1



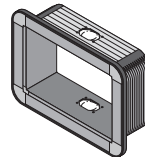
Connection bottom

2.5
2



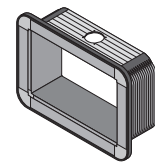
Connection top and
bottom¹⁾

2.5
3



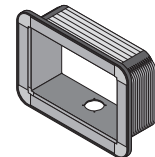
Connection top²⁾

2.5
4



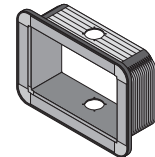
Connection bottom

2.5
5



Connection top and
bottom^{1) 2)}

2.5
6



2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8

Selection: Operating housing/keyboard housing

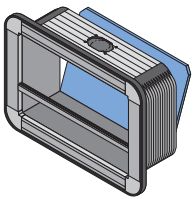
2.6 Rear panel

Material:

Aluminium, natural-anodised.

1) When installing the pull-out keyboard CP 6002.1X0 (see page 1137) in the Comfort Panel, design variant 2.1, no. A2 the cooling fins and screw channels protruding 11 mm into the enclosure may be milled off in this area. Please state the installation position when ordering.

2) On the longest side (right/bottom), cam with double-bit insert, may be exchanged for lock inserts 41 mm, type C, see page 956, plastic handles and T handles, type C, see page 954/955. The max. installation depth in the vicinity of the lock is reduced by 27 mm.



2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8
					2.6		



Screw-fastened

2.6
1



Hinged on the longest edge²⁾

2.6
2



Hinged with quick-release fasteners

2.6
3

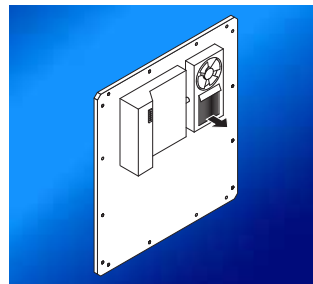


Rear cooling panel, modular¹⁾

Increases the dissipation of heat loss from the enclosure by approx. 10 %.

Detailed drawing, see page 1206.

2.6
4



Screw-fastened with built-in VIP small cooling unit, condenser assembly at the top left

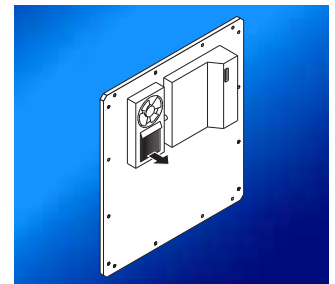
Recommended operating housing design (see 2.1 from an installation depth of 191 mm)

Material:

Aluminium, natural-anodised.

Detailed drawing, see page 641.

2.6
5



Condenser assembly, top right

2.6
6

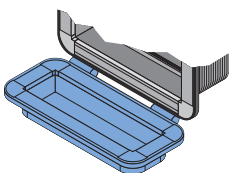
2.7 Keyboard housing

Width independent from the operating housing. The swivel bracket is adjustable from +88° to -136° from the horizontal in 8° increments.

1) Mounting kit for installing front panels, operating panels and keyboards in operating and keyboard housings, see page 1122.

2) Alternatively, the bars may be inserted to the rear with the support arm connection at the bottom.

3) By labelling with index A: Rigid connection via enclosure duct connector (see illustration on page 1119). With the support arm connection at the bottom, this must be checked in each individual case.



2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8
						2.7	



Without keyboard housing

2.7
0



With keyboard housing and cable tube
Installation depth 35 mm¹⁾

2.7
1



With keyboard housing and cable tube
Installation depth 74 mm^{1) 3)}

2.7
2



With support for keyboards and cable entry grommet. Please specify keyboard dimensions.

Detailed drawing, see page 1202.

2.7
3



Utility bars, vertically hinged and cable grommet²⁾

2.7
4



With keyboard housing and cable tube
Installation depth 113 mm^{1) 3)}

2.7
5

Comfort Panel

Selection: Operating housing/keyboard housing

2.8 Integration of accessories

In addition to the design code, you should also indicate the position or enclose a sketch.

¹⁾ Interface inserts may be found on page 1151, these may also be fitted by specifying the Model No. and position.



Without accessories

2.8
0



Interface flap, single, with plastic flap¹⁾
from installation depth 113 mm

2.8
1



Interface flap, double, with plastic flap¹⁾
only possible in the front panel, spacer and built-in trim panel or rear panel

2.8
2



Interface flap, single, with metal flap¹⁾
from installation depth 113 mm

2.8
3



Interface flap, double, with metal flap¹⁾
only possible in the front panel, spacer and built-in trim panel or rear panel

2.8
4



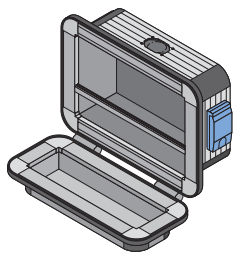
USB/RJ 45 extension
For order information, refer to page 1150.

2.8
5



Mounting preparations for signal pillars, modular
Mounting component, see page 1129.
Signal pillars, modular, see page 1126

2.8
6



2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8



Selection: Operating housing/keyboard housing

Example

The picture opposite shows the solution we have chosen, together with its corresponding design code number. The following key explains how the code number in our example is made up.

Operating/ keyboard housing

Model No.: CP 6372.009

Design code number:

2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8
A3	0	0	0	2	1	1	1

- 2.1 A3** Operating housing, installation depth 113 mm
- 2.2 0** Without cross member
- 2.3 0** No fins
- 2.4 0** Without design strip
- 2.5 2** Support arm connection CP-L □ 120 x 65 mm, bottom
- 2.6 1** Rear panel screw-fastened
- 2.7 1** With keyboard housing Installation depth 35 mm
- 2.8 1** Fitted interface flap

We need the following three pieces of information in order to deal with your enquiry/order:

- Model No.: CP 6372.009
- The dimensions and number of panels/front panels to be installed in the keyboard/operating housing
- Design code number

Order form, available on the Internet.

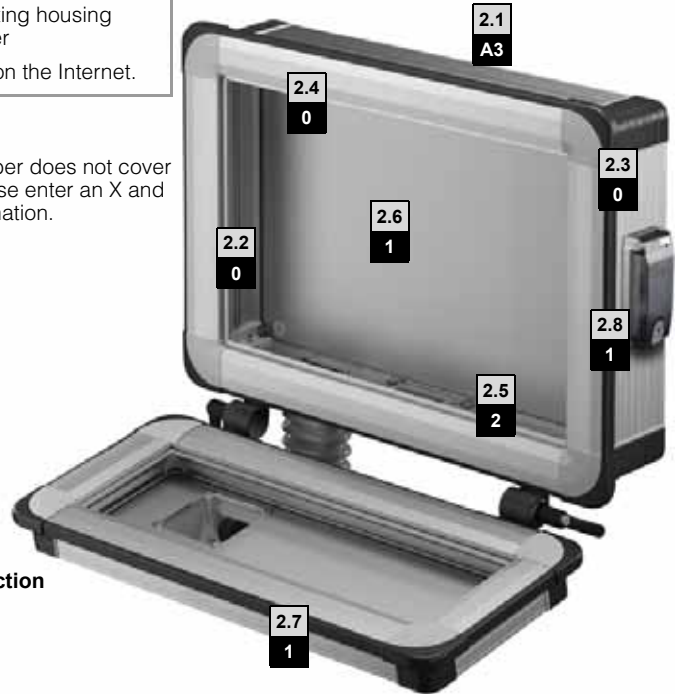
Note:

If the design code number does not cover your requirements, please enter an X and enclose a written explanation.



Rigid keyboard connection

Selection see design code 2.7.



Comfort Panel
B
1.4

