

Optipanel

Features

B
1.4
Optipanel



The stylish, customised solution.

Three installation depths: 50 mm, 100 mm, 150 mm.

Hinged rear panels facilitate easy servicing.

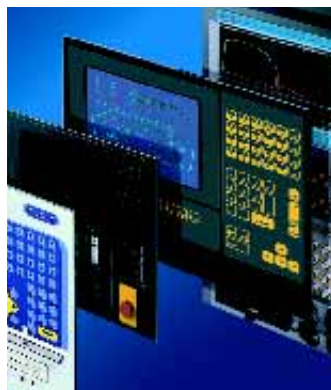
Customised to order or in standard sizes off the shelf.

Property rights:

German patent no. 41 09 695
 European patent no. 0 505 681
 with validity for CH, FR, GB, IT
 Jap. patent no. 3221506
 German patent no. 199 02 174
 German registered design
 no. 400 02 955

IR reg. des. No. DM/055 168
 with validity for CH, FR, IT
 US design patent no. D 456,403
 European patent no. 1 269 067
 with validity for CH, DE, FR, IT

Always within reach



Tailored precisely to the operator's requirements, various handle sets may be fitted in accordance with ergonomic requirements. "Steering" the enclosure becomes child's play.

All-round spring groove channels for flexible interior installation and for mounting accessories.

Superior seal helps to achieve protection category IP 65. For installations flush with the frame section with a front panel thickness of approx. 3.5 mm.

Keyboard housing/rear panels



Choose a suitable keyboard housing. There are two installation depths available, along with the keyboard support.

Choose the rear panel:

- Screw-fastened
- Hinged with cam lock

- Hinged with quick-release fasteners

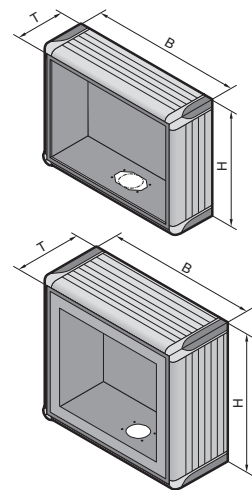
All-round attachment



Every attachment point is accessible on all sides!

Movable retaining claws create sufficient play to accommodate virtually all hole spacings (distance from the panel's outer edge 7 – 13 mm). Panels with screw fastening from the front, with studs or screw clamps, may be used.

Standard sizes and for desktop TFT up to 20.1"



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Material:
Enclosure:
Extruded aluminium section
Corner pieces:
Die-cast zinc
Corner protectors:
Plastic, self-extinguishing
Sealing trim:
Flexible plastic section

For CP 6380.050:
Front panel:
Aluminium, natural-anodised
Viewing window:
Toughened safety glass 4 mm

Surface finish:
Enclosure:
Natural-anodised
Corner pieces:
Powder-coated in finely-textured
RAL 7035
Corner protectors and
sealing trim:
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).

Approvals,
see page 37.

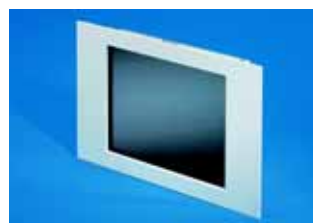
Detailed drawing,
see page 1207.

To fit front panels ¹⁾	Width x height mm	Packs of	Standard sizes						Optipanel for desktop TFT up to 20.1"	Page
			270 x 234	482.6 x 310.3	430 x 343	430 x 343	482.6 x 354.8	482.6 x 354.8	–	
To fit TFT monitor			–	–	6450.010/ 6450.030/ 6450.070/ 6450.120/ 6450.150	6450.010/ 6450.030/ 6450.070/ 6450.120/ 6450.150	6450.020/ 6450.030/ 6450.040/ 6450.080/ 6450.130/ 6450.160	6450.020/ 6450.040/ 6450.080/ 6450.130/ 6450.160	–	1133
Width (B) mm			314	527	475	475	527	527	574.5	
Height (H) mm			278	354	387	387	399	399	484.5	
Depth (T) mm			60	110	60	110	60	110	160	
Model No. CP		1	6380.100	6380.000	6380.010²⁾⁶⁾	6380.020	6380.030²⁾	6380.040	6380.050⁷⁾	
Rear panel, hinged	Quick-release fastener for screwdriver		■	–	■	–	■	–	–	
	Cam with double-bit insert ³⁾		–	■	–	■	–	■	■	
Support arm connection ⁴⁾			CP-S VESA 75 ⁵⁾	CP-L □ 120 x 65 mm	CP-L □ 120 x 65 mm, rear	CP-L □ 120 x 65 mm	CP-L □ 120 x 65 mm, rear	CP-L □ 120 x 65 mm	CP-L ∅ 130 mm	
Weight (kg)			2.8	6.2	4.48	5.28	5.8	6.6	14.2	

- ¹⁾ Installation criteria required for direct mounting of the panels, see page 207.
²⁾ For depth 60 mm the power pack must be mounted externally for reasons of space, e. g. in IW Station.
³⁾ Standard double-bit lock insert may be exchanged for 41 mm lock inserts, type C, see page 956.
 Plastic handles and T handles, type C, see page 954/955.
⁴⁾ Support arm connection at the top or bottom, by rotating the enclosure.
⁵⁾ Additional marked points for drilling holes, for the external mounting of:
 Assembly components with drilling pattern to VESA 75 = Enclosure attachment, tiltable IW 6902.670
 Support arm system CP-L, □ 120 x 65 mm
 Support arm system CP-S.
⁶⁾ Extended delivery times.
⁷⁾ Screw-fasten the TFT to the mounting plate, slide into the enclosure from behind and secure.



To fit **desktop TFT up to 20.1"** with rear connection
 ● VESA 75
 ● VESA 100
 Model No. 6380.050



TFT monitor,
 Model No. see page 1133.

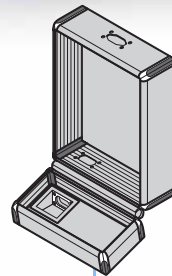
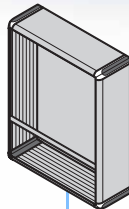


It's so easy!

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

- Model No.: CP 6382.009
- The dimensions and number of panels/front panels to be installed in the keyboard/operating housing
- Design code number

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



Operating/keyboard housing

Model No. CP

6 3 8 2 . 0 0 9

Material:

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

Surface finish:

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

For larger orders, other colours similar to RAL

- 5018 (turquoise)
 - 5005 (bright blue)
 - 3001 (bright red)
 - 7030 (pebble grey)
- are available.

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).

1. Panel dimensions

1.1 For operating housings and 1.2 For keyboard housings

On the order form, please state the width (B) x height (H) x depth (T) of the control components and the manufacturer/model. (See installation criteria).

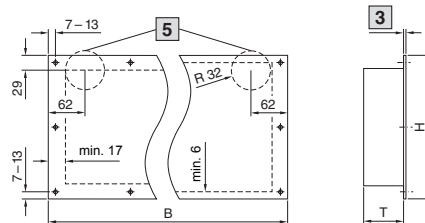
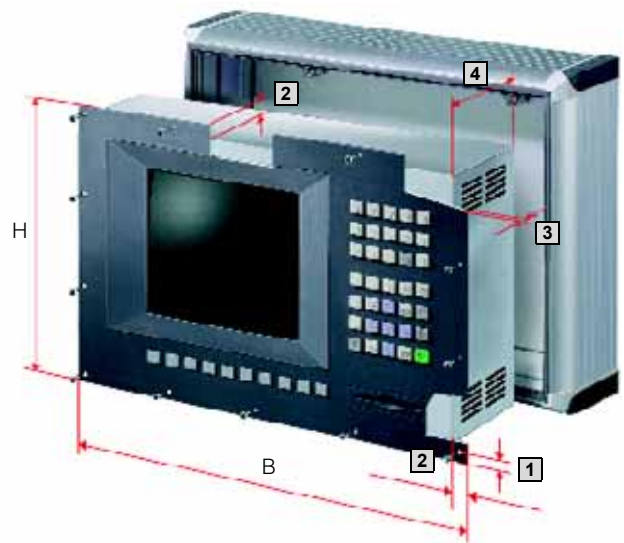
Checking the installation criteria

Please check whether your operator panel may be installed directly into the Optipanel. Subject to compliance with the criteria, front panels/panels may be mounted directly with the appropriate mounting kits, see page 1121. Otherwise, an adaptor panel will be required, see 2.2, design code 2. The dimensions of the operating and keyboard housing are derived from the dimensions of your panel and the number of cross members.

Note:

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 1206.

- 1** 7 to 13 mm edge spacing of the mounting holes or bolts.
- 2** Front panel projection on sides with mounting holes and bolts at least 17 mm, on sides without attachments at least 6 mm.
- 3** Front panels up to 5 mm. From a thickness of approx. 3.5 mm the front panel is flush with the sealing trim and the enclosure front.
- 4** Installation depths:
Operating housing = 50 mm, 100 mm, 150 mm.
Keyboard housing = 50 mm, 100 mm.
- 5** For versions with a hinged rear panel with cam fastener, the maximum installation depth is reduced by 27 mm in the vicinity of the lock.

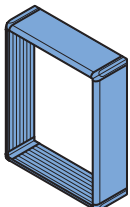


B = Width

Optipanel
B
1.4

2.1 Installation depth

Detailed drawing, see page 1204.



2.1	2.2	2.3	2.4	2.5	2.5	2.6
-----	-----	-----	-----	-----	-----	-----



50 mm

2.1
1



100 mm

2.1
2



150 mm

2.1
3

Note:

Installation depth > 150 mm over recessed rear panel on request (like VIP 6000, design variant 3.8, no. 3 and 4, see page 221).

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 1121.

Detailed drawing, see page 1204.



Without cross member

2.2
0



With cross member¹⁾

For horizontal and/or vertical division of the operating housing front. With mounting channel on both sides to accommodate mounting kits, see page 1121.

Material:
Extruded aluminium section, natural-anodised

2.2
1



With an adaptor plate
(to specification)

Material thickness:
3 mm aluminium, natural-anodised.

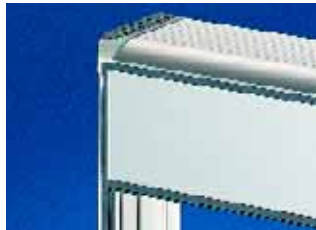
Please specify the dimensions for the front panel and the desired holes and cut-outs.

2.2
2

¹⁾ Suitable quantity for sealing the individual separation points. For example: 3 front panels in operating housing = 2 separation points = 2 cross members/sealing bars included with the supply. Other combinations available on request.

²⁾ Screw-fastened from the inside, with cam or l/h hinge on request.

³⁾ **Detailed drawing,** see page 1123.

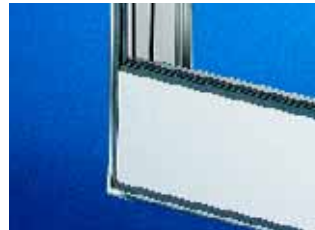


With spacing and built-in trim panel³⁾, at the top

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

Material:
Extruded aluminium section, natural-anodised

2.2
3



With spacing and built-in trim panel³⁾, at the bottom

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

Material:
Extruded aluminium section, natural-anodised

2.2
4



With sealing bar¹⁾

For horizontal and/or vertical division of operating housings. The "slot-free" division produces a height gain of 22 mm.

Material:
Extruded aluminium section 8 x 20 mm, natural-anodised

2.2
5



With front panel hinged²⁾

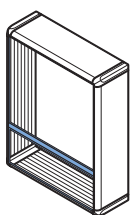
For example, if a disk drive built into the operator panel requires such free access, see page 1120.

Standard design:

- Screw-fastened from the outside
- R/h hinge

Material:
Front panel: 3 mm aluminium, natural-anodised.
Extruded aluminium section: Natural-anodised

2.2
6



2.1	2.2	2.3	2.4	2.5	2.6
	2.2				

Selection: Operating housing/keyboard housing

2.3 Support arm wall and pedestal connection



Accessories:

Support arm components for connection of the Optipanel to the support arm system CP-S¹⁾, CP-L, see from page 243.
Stand systems, see from page 286.

Detailed drawing, see page 1205.



Without connection

2.3
0



Connection top¹⁾

2.3
1



Connection bottom¹⁾

2.3
2



Connection top and bottom^{1) 2)}

2.3
3

CP-L □ 120 x 65 mm for
housing coupling CP 6525.1X0,
enclosure attachment CP 6525.6X0,
housing coupling CP-S, CP 6501.130
only applies to installation depth 100 mm

¹⁾ For support arm system CP-S, steel, for installation depth 100 and 150 mm, please add an **S** after the design code number.

²⁾ Including a cover plate for sealing the unused section.

³⁾ Unless otherwise specified, will be supplied in RAL 7024

⁴⁾ 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**



Connection top^{1) 4)}

2.3
4



Connection bottom^{1) 4)}

2.3
5



Connection top and bottom^{1) 2) 4)}

2.3
6

CP-L, Ø 130 mm for
housing coupling CP 6525.1X0,
enclosure attachment CP 6525.6X0,
angle coupling CP 6526.0X0
only applies to installation depth 150 mm



Note:
Wall mounting possible:
hinged with CP 6016.200,
see page 977.



Connection rear, top³⁾

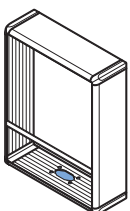
2.3
7



Connection rear, bottom³⁾

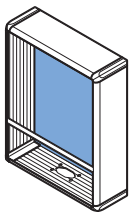
2.3
8

CP-L □ 120 x 65 mm for
housing coupling CP 6525.1X0,
enclosure attachment CP 6525.6X0,
enclosure attachment, tilting CP 6902.640/.670,
housing coupling CP-S, CP 6501.130
only applies to installation depth 50 mm



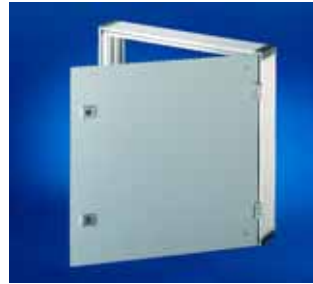
2.1	2.2	2.3	2.4	2.5	2.6
		2.3			

2.4 Rear panels



Rear panel screw-fastened

2.4
1



Rear panel hinged on the longest edge

Viewed from the rear, hinged on the right or at the bottom^{1) 2) 3)}.

2.4
2



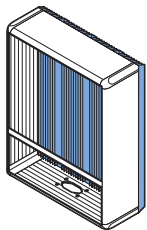
Example of the versatility of the enclosure: Mounting on doors

With all operating/keyboard housings, the rear panel may be supplied prepared for external mounting on flat surfaces on request.



Also required:

Enclosure duct connector CP 6006.000, see page 1119. For mounting and cable entry.



Rear cooling panel, modular

Increases the dissipation of heat loss from the enclosure by approx. 10 %. Guidelines for dissipatable heat loss, see page 227.

2.4
3

Material:

Extruded aluminium section

Note:

When installing the pull-out keyboard CP 6002.1X0 (see page 1137) in an Optipanel, design variant 2.1, no. 3, the cooling fins and screw channels protruding 11 mm into the enclosure may be milled off in this area – please specify when ordering.

Detailed drawing, see page 1206.



Rear panel hinged with quick-release fasteners¹⁾

2.4
4

2.1	2.2	2.3	2.4	2.5	2.6

Note:

- ¹⁾ With a support arm connection at the rear, only possible on the side opposite the support arm connection.
- ²⁾ Standard double-bit lock insert may be exchanged for 41 mm lock inserts, type C, see page 956, plastic handles and lever handles, type C, see page 954/955.
- ³⁾ With a hinged rear panel, the maximum installation depth in the vicinity of the lock is reduced by 27 mm (see page 207, drawing point 5).



Selection: Operating housing/keyboard housing

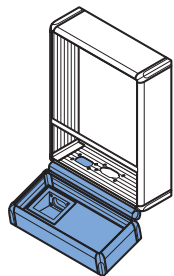
2.5 Keyboard housing

Width independent of operating housing.
The swivel bracket is infinitely adjustable from 80° to 155°.

! Also required:

¹⁾ Mounting kit for installing front panels, operating panels and keyboards in operating and keyboard housings, see page 1121.

Detailed drawing, see page 1205.



2.1	2.2	2.3	2.4	2.5	2.6
				0	



Without keyboard housing

2.5
0



With keyboard housing
Installation depth 50 mm¹⁾

2.5
1



With keyboard housing
Installation depth 100 mm¹⁾

2.5
2



With support for keyboards

2.5
3



Utility bars, vertically hinged
With cable entry grommet²⁾

2.5
4

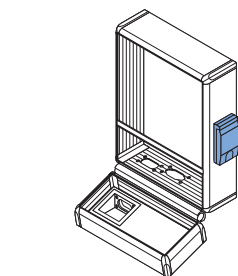
²⁾ With a support arm connection at the bottom, from depth 150 mm, swivelling is only supported in conjunction with enclosure attachment CP-S (CP 6501.070), enclosure attachment CP-L for support arm connection 120 x 65 mm (CP 6525.6X0).
When mounting beneath surfaces, the bars may alternatively be pushed towards the rear.

2.6 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



2.1	2.2	2.3	2.4	2.5	2.6
				0	0



Interface flap, single, with plastic flap¹⁾
from an installation depth of 100 mm.

2.6
1



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

2.6
2



Interface flap, single, with metal flap¹⁾
from an installation depth of 100 mm.

2.6
3



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

2.6
4



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

2.6
5



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

2.6
6

B
1.4
Optipanel

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 6382.009

Design code number:

2.1	2.2	2.3	2.4	2.5	2.6
2	1	2	1	1	1

- 2.1 2** Operating housing, installation depth 100 mm
- 2.2 1** With one cross member
- 2.3 2** Support arm connection CP-L □ 120 x 65 mm, bottom
- 2.4 1** Rear panel, screw-fastened
- 2.5 1** With keyboard housing, Installation depth 50 mm
- 2.6 1** Fitted interface flap

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

- Model No.: CP 6382.009
- 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.

