Optipanel

Features

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.

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.

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

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
**Optipanel**

**Standard sizes and for desktop TFT up to 20.1”**

**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

**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).

**Approvals,** see page 37.

**Detailed drawing,** see page 1207.

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<table>
<thead>
<tr>
<th>To fit</th>
<th>Width x height mm</th>
<th>Packs of</th>
<th>Standard sizes</th>
<th>Optipanel for desktop TFT up to 20.1”</th>
</tr>
</thead>
<tbody>
<tr>
<td>front panels&lt;sup&gt;1)&lt;/sup&gt;</td>
<td>270 x 234</td>
<td>482.6 x 310.3</td>
<td>430 x 343</td>
<td>430 x 343</td>
</tr>
<tr>
<td>To fit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TFT monitor</td>
<td>–</td>
<td>–</td>
<td>6450.010/6450.030/6450.070/6450.120/6450.150</td>
<td>6450.010/6450.030/6450.070/6450.120/6450.150</td>
</tr>
<tr>
<td>Width (B) mm</td>
<td>314</td>
<td>527</td>
<td>475</td>
<td>475</td>
</tr>
<tr>
<td>Height (H) mm</td>
<td>278</td>
<td>354</td>
<td>387</td>
<td>387</td>
</tr>
<tr>
<td>Depth (T) mm</td>
<td>60</td>
<td>110</td>
<td>60</td>
<td>110</td>
</tr>
<tr>
<td>Model No. CP</td>
<td>1</td>
<td>6380.100</td>
<td>6380.000</td>
<td>6380.010&lt;sup&gt;2)&lt;/sup&gt;</td>
</tr>
<tr>
<td>Rear panel, hinged</td>
<td>Quick-release fastener for screwdriver</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Cam with double-bit insert&lt;sup&gt;3)&lt;/sup&gt;</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Support arm connection&lt;sup&gt;4)&lt;/sup&gt;</td>
<td>CP-S VESA 75&lt;sup&gt;5)&lt;/sup&gt;</td>
<td>CP-L 120 x 65 mm</td>
<td>CP-L 120 x 65 mm, rear</td>
<td>CP-L 120 x 65 mm, rear</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>2.8</td>
<td>6.2</td>
<td>4.48</td>
<td>5.28</td>
</tr>
</tbody>
</table>

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<sup>1)</sup> Installation criteria required for direct mounting of the panels, see page 207.
<sup>2)</sup> For depth 60 mm the power pack must be mounted externally for reasons of space, e.g. in IW Station.
<sup>3)</sup> Standard double-bit lock insert may be exchanged for 41 mm lock inserts, type C, see page 956.
<sup>4)</sup> Plastic handles and T handles, type C, see page 954/955.
<sup>5)</sup> Support arm connection at the top or bottom, by rotating the enclosure.
<sup>6)</sup> 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.

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

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**Accessories**
- Page 890
- Industrial Workstations IW Page 172
- Support arm systems Page 237
- Stand systems Page 286
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.

2.1 Installation depth

Detailed drawing, see page 1204.

[Diagram showing installation depths: 50 mm, 100 mm, 150 mm]

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).
## Optipanel

### Selection: Operating housing/keyboard housing

#### 2.2 Front design

<table>
<thead>
<tr>
<th>Front Design</th>
<th>Image</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without cross member</td>
<td><img src="https://example.com/image1" alt="Image" /></td>
<td>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.</td>
</tr>
<tr>
<td>With cross member ²)</td>
<td><img src="https://example.com/image2" alt="Image" /></td>
<td>For horizontal and/or vertical division of the operating housing front. With mounting channel on both sides to accommodate mounting kits, see page 1121.</td>
</tr>
<tr>
<td>With an adaptor plate (to specification)</td>
<td><img src="https://example.com/image3" alt="Image" /></td>
<td>Material thickness: 3 mm aluminium, natural-anodised. Please specify the dimensions for the front panel and the desired holes and cut-outs.</td>
</tr>
<tr>
<td>With spacing and built-in trim panel ³), at the top</td>
<td><img src="https://example.com/image4" alt="Image" /></td>
<td>For additional space for cable entry and for installing switches/indicator lights, CD-ROM/disk drives, interfaces etc.</td>
</tr>
<tr>
<td>With spacing and built-in trim panel ³), at the bottom</td>
<td><img src="https://example.com/image5" alt="Image" /></td>
<td>For additional space for cable entry and for installing switches/indicator lights, emergency off/key switches, CD-ROM/disk drives, interfaces etc.</td>
</tr>
<tr>
<td>With sealing bar ¹)</td>
<td><img src="https://example.com/image6" alt="Image" /></td>
<td>For horizontal and/or vertical division of operating housings. The &quot;slot-free&quot; division produces a height gain of 22 mm.</td>
</tr>
<tr>
<td>With front panel hinged ²)</td>
<td><img src="https://example.com/image7" alt="Image" /></td>
<td>For example, if a disk drive built into the operator panel requires such free access, see page 1120.</td>
</tr>
</tbody>
</table>

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.
2.3 Support arm wall and pedestal connection

Accessories:
Support arm components for connection of the Optipanel to the support arm system CP-S\(^1\), CP-L, see from page 243.
Stand systems, see from page 286.
Detailed drawing, see page 1205.

Without connection 2.3 0
Connection top\(^1\) 2.3 1
Connection bottom\(^1\) 2.3 2
Connection top and bottom\(^1\) 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

Connection top\(^1\) 4) 2.3 4
Connection bottom\(^1\) 4) 2.3 5
Connection top and bottom\(^1\) 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

Connection rear, top\(^3\) 2.3 7
Connection rear, bottom\(^3\) 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

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

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

Selection: Operating housing/keyboard housing

2.4 Rear panels

Rear panel screw-fastened

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

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.

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.

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).
### 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.

- **Without keyboard housing**
- **With support for keyboards**
- **Utility bars, vertically hinged**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5</td>
<td>With keyboard housing installation depth 50 mm¹</td>
</tr>
<tr>
<td>2.5</td>
<td>With keyboard housing installation depth 100 mm¹</td>
</tr>
<tr>
<td>2.5</td>
<td>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 alternatley be pushed towards the rear.</td>
</tr>
</tbody>
</table>

²) With an interface flap, double, with plastic flap¹ only possible in the front panel, spacer and built-in trim panel or rear panel.

### 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**
- **Interface flap, single, with plastic flap¹** from an installation depth of 100 mm.
- **Interface flap, double, with plastic flap¹** only possible in the front panel, spacer and built-in trim panel or rear panel.
- **Interface flap, single, with metal flap¹** from an installation depth of 100 mm.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.6</td>
<td>Interface flap, single, with plastic flap¹</td>
</tr>
<tr>
<td>2.6</td>
<td>Interface flap, double, with plastic flap¹</td>
</tr>
<tr>
<td>2.6</td>
<td>Interface flap, single, with metal flap¹</td>
</tr>
</tbody>
</table>

- **USB/RJ 45 extension** For order information, refer to page 1150.
- **Mounting preparations for signal pillars** Mounting component, see page 1129. Signal pillars, modular, see page 1126.
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:

<table>
<thead>
<tr>
<th>2.1</th>
<th>2.2</th>
<th>2.3</th>
<th>2.4</th>
<th>2.5</th>
<th>2.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

- 2.1: Operating housing, installation depth 100 mm
- 2.2: With one cross member
- 2.3: Support arm connection CP-L 120 x 65 mm, bottom
- 2.4: Rear panel, screw-fastened
- 2.5: With keyboard housing, installation depth 50 mm
- 2.6: 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.