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.

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.
Comfort Panel

Operating 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 accordance with the protection category).

Material: 
- Enclosure: Extruded aluminium section
- Corner pieces: Die-cast zinc
- Corner protectors: Self-extinguishing plastic
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### Operating housing

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Operating housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>To fit front panels Width x height mm</td>
<td>482.6 (19&quot;) x 310.3 (7 U)</td>
</tr>
<tr>
<td>430 x 343</td>
<td>482.6 (19&quot;) x 354.8 (8 U)</td>
</tr>
<tr>
<td>To fit TFT monitor, see page 1133</td>
<td>6450.010</td>
</tr>
<tr>
<td>6450.030</td>
<td>6450.040</td>
</tr>
<tr>
<td>6450.070</td>
<td>6450.080</td>
</tr>
<tr>
<td>6450.120</td>
<td>6450.130</td>
</tr>
<tr>
<td>6450.150</td>
<td>6450.160</td>
</tr>
<tr>
<td>Installation depth</td>
<td>74</td>
</tr>
<tr>
<td>113</td>
<td>152</td>
</tr>
<tr>
<td>191</td>
<td>308</td>
</tr>
<tr>
<td>74</td>
<td></td>
</tr>
<tr>
<td>Width (B) mm</td>
<td>591</td>
</tr>
<tr>
<td>538</td>
<td>591</td>
</tr>
<tr>
<td>Height (H) mm</td>
<td>419</td>
</tr>
<tr>
<td>452</td>
<td>464</td>
</tr>
<tr>
<td>Depth (T) mm</td>
<td>92</td>
</tr>
<tr>
<td>131</td>
<td>170</td>
</tr>
<tr>
<td>209</td>
<td>326</td>
</tr>
<tr>
<td>92</td>
<td></td>
</tr>
<tr>
<td>Support arm connection</td>
<td>Model No. CP</td>
</tr>
<tr>
<td>CP-L (see page 250)</td>
<td>120 x 65 mm</td>
</tr>
<tr>
<td>1.4</td>
<td>120 x 65 mm</td>
</tr>
<tr>
<td>1.4</td>
<td>Ø 130 mm</td>
</tr>
<tr>
<td>1.1</td>
<td>Ø 130 mm</td>
</tr>
<tr>
<td>1.1</td>
<td>Ø 130 mm</td>
</tr>
<tr>
<td>1.1</td>
<td>120 x 65 mm</td>
</tr>
<tr>
<td>1.4</td>
<td>120 x 65 mm</td>
</tr>
<tr>
<td>1.4</td>
<td></td>
</tr>
<tr>
<td>Top or bottom, by rotating the enclosure 1</td>
<td>6371.000</td>
</tr>
<tr>
<td>6371.220</td>
<td>6371.030</td>
</tr>
<tr>
<td>6371.060</td>
<td>6371.090</td>
</tr>
<tr>
<td>6371.120</td>
<td>6371.150</td>
</tr>
<tr>
<td>Top, with cable tube cut-out at the bottom 1</td>
<td>6371.010</td>
</tr>
<tr>
<td>6371.230</td>
<td>6371.040</td>
</tr>
<tr>
<td>6371.070</td>
<td>6371.100</td>
</tr>
<tr>
<td>6371.130</td>
<td>6371.160</td>
</tr>
<tr>
<td>Bottom, with cable tube cut-out at the bottom 1</td>
<td>6371.020</td>
</tr>
<tr>
<td>6371.240</td>
<td>6371.050</td>
</tr>
<tr>
<td>6371.080</td>
<td>6371.110</td>
</tr>
<tr>
<td>6371.140</td>
<td>6371.170</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>7.4</td>
</tr>
<tr>
<td>9.6</td>
<td>10.5</td>
</tr>
<tr>
<td>13.3</td>
<td>18.3</td>
</tr>
<tr>
<td>7.2</td>
<td>7.8</td>
</tr>
<tr>
<td>Rear frame hinged</td>
<td>Hinged</td>
</tr>
<tr>
<td>Front frame hinged</td>
<td>–</td>
</tr>
</tbody>
</table>
| 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.

Accessories
- Keyboard housing, see page 195.
- Support arm systems, see page 237.
- Detailed drawing, see page 1200 – 1201.

1) Extended delivery times.
2) Enclosure with fins at the sides to boost the dissipation of heat.
Comfort Panel

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 accordance with the protection category).

Material: Extruded aluminium section
Corner pieces: Die-cast zinc
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Accessories: Operating housings, see page 194.
Detailed drawing, see page 1202.

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<table>
<thead>
<tr>
<th>Packs of</th>
<th>Keyboard housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>To fit front panels Width x height mm</td>
<td>482.6 (19&quot;) x 155 (3.5 U)</td>
</tr>
<tr>
<td>Installation depth</td>
<td>74</td>
</tr>
<tr>
<td>Width (B) mm</td>
<td>591</td>
</tr>
<tr>
<td>Height (H) mm</td>
<td>264</td>
</tr>
<tr>
<td>Depth (T) mm</td>
<td>92</td>
</tr>
<tr>
<td>Cable tube cut-out</td>
<td>Model No. CP</td>
</tr>
<tr>
<td>Without</td>
<td>1</td>
</tr>
<tr>
<td>With</td>
<td>1</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>5.7</td>
</tr>
<tr>
<td>Rear panel</td>
<td>Screw-fastened</td>
</tr>
</tbody>
</table>

*Extended delivery times.

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USB/RJ 45 extension
Model No. see page 1150.

Frame connector, adjustable for Comfort Panel,
Model No. see page 977.

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

1. **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.

2. **Height of the front panel/panel**

#### A. Front panel/Panel installation:

<table>
<thead>
<tr>
<th>Method</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>From the front via screw</td>
<td><img src="image1" alt="Diagram A" /></td>
</tr>
<tr>
<td>From the front via studs</td>
<td><img src="image2" alt="Diagram B" /></td>
</tr>
<tr>
<td>From the rear via screw/grub</td>
<td><img src="image3" alt="Diagram C" /></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long retaining claw</td>
<td><img src="image4" alt="Diagram D" /></td>
</tr>
<tr>
<td>Medium retaining claw</td>
<td><img src="image5" alt="Diagram E" /></td>
</tr>
<tr>
<td>Short retaining claw</td>
<td><img src="image6" alt="Diagram F" /></td>
</tr>
<tr>
<td>Without retaining claw</td>
<td><img src="image7" alt="Diagram G" /></td>
</tr>
</tbody>
</table>

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

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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

6372.009

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.

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

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

Secured = As delivered
Removable = Replace C with D in the code number
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
- With one cross member1)
- With two cross members1)

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

With two cross members1)

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.

Material:
Extruded aluminium section, natural-anodised

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

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

2.3 Cooling fins

- No fins
- Fins at sides

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.
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.

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

Without connection 2.5 0

Connection top 2.5 1

Connection bottom 2.5 2

Connection top and bottom 2.5 3

Connection top and bottom 2.5 4

Connection top 2.5 5

Connection top and bottom 2.5 6
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.

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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.

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**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.

<table>
<thead>
<tr>
<th>Description</th>
<th>Code 1</th>
<th>Code 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without accessories</td>
<td>2.8 0</td>
<td>2.8 2</td>
</tr>
<tr>
<td>Interface flap, single, with plastic flap(^1) from installation depth 113 mm</td>
<td>2.8 1</td>
<td>2.8 2</td>
</tr>
<tr>
<td>Interface flap, double, with plastic flap(^1) only possible in the front panel, spacer and built-in trim panel or rear panel</td>
<td>2.8 2</td>
<td></td>
</tr>
<tr>
<td>Interface flap, single, with metal flap(^1) from installation depth 113 mm</td>
<td>2.8 3</td>
<td></td>
</tr>
<tr>
<td>Interface flap, double, with metal flap(^1) only possible in the front panel, spacer and built-in trim panel or rear panel</td>
<td>2.8 4</td>
<td></td>
</tr>
<tr>
<td>USB/RJ 45 extension For order information, refer to page 1150.</td>
<td>2.8 5</td>
<td></td>
</tr>
<tr>
<td>Mounting preparations for signal pillars, modular Mounting component, see page 1129. Signal pillars, modular, see page 1126</td>
<td>2.8 6</td>
<td></td>
</tr>
</tbody>
</table>
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 Operating housing, installation depth 113 mm
2.2 Without cross member
2.3 No fins
2.4 Without design strip
2.5 Support arm connection CP-L 120 x 65 mm, bottom
2.6 Rear panel screw-fastened
2.7 With keyboard housing Installation depth 35 mm
2.8 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.