



# CUSTOMIZED ENCLOSURES RIGHT TO YOUR DOORSTEP RELIABLE. FLEXIBLE. FAST.









GET THE INDUSTRY'S LEADING
HMI ENCLOSURES, BUILT TO YOUR
SPECIFICATIONS IN AS LITTLE
AS 2 WEEKS

Here are two new programs that put you in control. Rittal lets you choose the most popular components of our VIP and Optipanel HMI enclosure systems. Then we ship them to you in just 2 weeks from receipt of your purchase order. If you require more customization, such as non-standard sizes and accessories, or even your own front panel design, we can handle that too. We'll ship your completed, customized system in just 4 weeks.

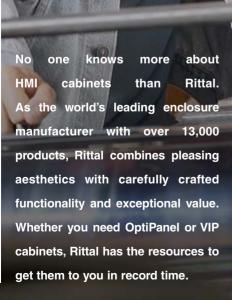
## 2 Week Program

Simply choose the part number of the VIP or Optipanel from the selection charts. You can also indicate which standard pushbutton cutouts you require. That's it. Within just 2 weeks of receipt of your PO, your complete system is on its way.

## 4 Week Program

This option lets you choose the VIP or Optipanel components that fit your requirements from any of those listed in the appropriate selection charts. This means you can select from a broader range of enclosure dimensions and accessories for even greater flexibility. Plus, with this option you can submit your own front panel design.

TRIM COLORS TO ORDER
COVER TRIM, END TRIM
AND SPACER TRIM ARE
AVAILABLE IN FIVE
COLORS. THE ENCLOSURE
CORNER PROTECTORS
ARE LIKEWISE PRODUCED
IN THE CHOSEN TRIM
COLOR. CUSTOMIZED
COLORS CAN ALSO BE
PRODUCED FOR
LARGER ORDERS.

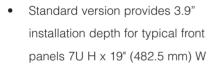


way, South San Francisco, CA 94080-6370 ∙ General Inquiries: (800) 670-4183 ∙ www.stevenengineering.com

## WHICH SYSTEM IS RIGHT FOR YOU?

#### **OPTIPANEL**

The ideal combination of form, function and economy for smaller panels, Optipanel has a slender, sleek, flat design. The standard enclosure fits many commonly used front panels, and the system can be



customized to your exact requirements.

- Other available installation depths:
   1.97" (50 mm), 3.97" (100 mm),
   and 5.90" (150 mm)
- Can be configured to your precise requirements with housing, mullion, rear wall and keyboard housing
- Operator housing can be subdivided to accept multiple panels
- Pendant arm supports available
- UL/cUL Type 12/IP 55
   UL File Number: E76083



Rittal's VIP operator
interface system is the
industry's premier HMI
enclosure solution. No
other system provides
this range of sizes,
accessories and
customization. With VIP you can



integrate your own control panel into an ergonomically designed enclosure precisely crafted for your application.VIP offers the option of a keyboard tray or housing, and an extensive list of accessories including pendant arm supports. Key system features include:

- Wide, narrow and combination frames to precisely match your application
- Installation depths from 6.10" (155 mm) through
   17.28" (438 mm) for greater flexibility
- Keyboard housings that easily connect to the operator housing
- Available with or without heat dissipating cooling fins
- Operator housing can be subdivided to accept multiple panels
- UL/cUL Type 12/IP 55
   UL File Number: E76083



## RITTALXPRESS 2-WEEK OPTIPANEL PROGRAM

Rittal Xpress offers a comprehensive selection of enclosures and fully-assembled HMI enclosures in just two weeks from receipt of your order. Use the product selection guides on the following pages to create the code for your ideal HMI enclosure. A fax order form for enclosures with two-week availability is located on the next page of this brochure.

## OPTIPANEL - CODE BOX 1 - SELECT YOUR HMI ENCLOSURE SIZE

| Code | Part No. | Description   |
|------|----------|---|
| Α    | 9970859  | Optipanel, 7U H x 19" (482.5 mm) W x 6" (150 mm) D Without Connection             |
| В    | 9970860  | Optipanel 7U H x 19" (482.5 mm) W x 6" (150 mm) D With Top Connection             |
| С    | 9970861  | Optipanel 7U H x 19" (482.5 mm) W x 6" (150 mm) D With Bottom Connection          |
| D    | 9970862  | Optipanel 7U H x 19" (482.5 mm) W x 6" (150 mm) D With Top & Bottom Connection    |
| E    | 9970863  | Optipanel 10.5U H x 19" (482.5 mm) W x 6" (150 mm) D Without Connection           |
| F    | 9970864  | Optipanel 10.5U H x 19" (482.5 mm) W x 6" (150 mm) D With Top Connection          |
| G    | 9970865  | Optipanel 10.5U H x 19" (482.5 mm) W x 6" (150 mm) D With Bottom Connection       |
| Н    | 9970866  | Optipanel 10.5U H x 19" (482.5 mm) W x 6" (150 mm) D With Top & Bottom Connection |







Connection at top



Connection at bottom



Connection top and bottom

#### OPTIPANEL - CODE BOX 2 - SELECT KEYBOARD OPTIONS

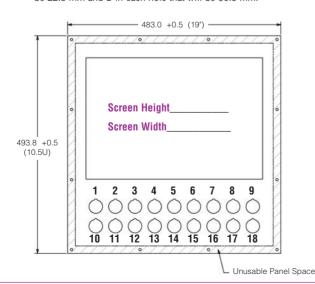
| Code   | Part No. | Description  |
|--------|----------|--|
| Y or N | 9970867  | Code Y or N: Keyboard for Optipanel, Preconfigured with Panel, |
|        |          | 3.5U H x 19" (482.5 mm) W x 4" (100 mm) D                      |

Y = Yes keyboard is wanted N = No do not need

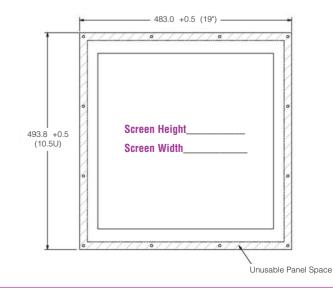


## RITTAL XPRESS 2-WEEK OPTIPANEL FORM Configuring HMI enclosures has never been easier. Log onto www.rittal-corp.com/rittalxpress/HMI and complete our real-time configurator. Or fill out the simple form below and fax it to 1-800-477-4003. \_\_\_\_\_ Your Phone \_\_\_ Your Company\_\_\_ Your Name\_ \_\_\_Your Zip \_\_ Your E-mail \_\_\_ Your Account Number (if applicable) — Select your Optipanel enclosure size from options A-H on the opposite page and write the appropriate letter in the code box labeled 1. Select your keyboard option ( $\mathbf{Y} = \mathbf{Yes}$ keyboard is wanted, or $\mathbf{N} = \mathbf{No}$ keyboard is required). Please write your selection in the code box labeled 2. Tell us about your cutouts. Please write the dimension for the cutout in the space provided. Please indicate the holes that you would like to activate by writing an A in each hole that will be 22.5 mm and B in each hole that will be 30.5 mm. **BUILD YOUR ENCLOSURE CODE** OPTIPANEL — FINAL STEP — PANEL CUT OUT SIZE AND PUSHBUTTONS REQUIRED **7U with Pushbuttons** – Please write the height and the width of **7U** – Please write the height and the width of the panel cutout in the panel cutout in the space provided below. Indicate the holes that the space provided below. you would like to activate by writing an A in each hole that will be 22.5 mm and B in each hole that will be 30.5 mm. \_\_ 483.0 +0.5 (19") \_\_\_\_ — 483.0 +0.5 (19") — Screen Height Screen Height 310.3 +0.5 (7U) Screen Width\_\_\_\_ Screen Width 311.2 +0.5 (7U) 2 3 4 5 6 7 8 Unusable Panel Space Unusable Panel Space

10.5U with Pushbuttons – Please write the height and the width of the panel cutout in the space provided below. Indicate the holes that you would like to activate by writing an A in each hole that will be 22.5 mm and B in each hole that will be 30.5 mm.



**10.5U** – Please write the height and the width of the panel cutout in the space provided below.





## RITTALXPRESS 2-WEEK VIP PROGRAM

Rittal Xpress offers a comprehensive selection of enclosures and fully-assembled HMI enclosures in just two weeks from receipt of your order. Use the product selection guides on the following pages to create the code for your ideal HMI enclosure. A fax order form for enclosures with two-week availability is located on the next page of this brochure.

#### VIP - CODE BOX 1 - SELECT YOUR HMI ENCLOSURE SIZE

| Code | Part No. | Description  |
|------|----------|--|
| Α    | 9970870  | VIP 7U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, Without Connection                                   |
| В    | 9970871  | VIP 7U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, With Top Connection                                  |
| С    | 9970872  | VIP 7U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, With Bottom Connection                               |
| D    | 9970873  | VIP 7U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, With Top & Bottom Connection                         |
| Е    | 9970874  | VIP 10.5U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, Without Connection                                |
| F    | 9970875  | VIP 10.5U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, With Top Connection                               |
| G    | 9970876  | VIP 10.5U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, With Bottom Connection                            |
| Н    | 9970877  | VIP 10.5U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, With Top & Bottom Connection                      |
| I    | 9970878  | VIP 7U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, Without Connection, With Keyboard Connection         |
| J    | 9970879  | VIP 7U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, With Top Connection and Keyboard Connection          |
| K    | 9970880  | VIP 7U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, With Bottom Connection and Keyboard Connection       |
| L    | 9970881  | VIP 7U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, With Top & Bottom Connection and Keyboard Connection |
| M    | 9970882  | VIP 10.5U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, Without Connection With Keyboard Connection       |
| N    | 9970883  | VIP 10.5U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, Without Connection, With Keyboard Connection      |
| 0    | 9970884  | VIP 10.5U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, With Bottom Connection                            |
| Р    | 9970885  | VIP 10.5U H x 19" (482.5 mm) W x 7.3" 185 mm D, Including Cover Trims, With Top & Bottom Connection                      |



Without connection



Connection at top



Connection at bottom



Connection top and bottom



## VIP - CODE BOX 2 - SELECT KEYBOARD OPTIONS

| Code | Part No. | Description   |
|------|----------|---|
| Α    | 9970886  | VIP Keyboard, 3.5U H x 19" (482.5 mm) W x 4.1" (105 mm) D |
|      |          | With an Adjustable Connection and FLEX-TUBE               |
| В    | 9970887  | VIP Keyboard, 3.5U H x 19" (482.5 mm) W x 4.1" (105 mm) D |
|      |          | With an Adjustable Connection                             |
| С    | _        | No Keyboard   |

#### RITTAL XPRESS 2-WEEK VIP FORM



Configuring HMI enclosures has never been easier. Log onto www.rittal-corp.com/rittalxpress/HMI and complete our real-time configurator. Or fill out the simple form below and fax it to 1-800-477-4003.

\_\_\_\_\_ Your Phone \_\_\_ Your Company

\_\_\_\_\_\_Your Zip \_\_\_ Your Name\_

\_\_\_\_\_ Your Account Number (if applicable) \_\_\_\_ Your F-mail

Select your VIP enclosure size from options A-P on the opposite page and write the appropriate letter in the code box labeled 1. Select your keyboard from options A-C on the opposite page and write the appropriate letter in the code box labeled 2. Tell us about your cutouts. A. Write the dimensions for the screen in the space provided below.

#### **BUILD YOUR ENCLOSURE CODE**







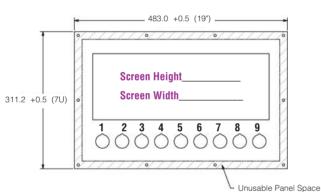




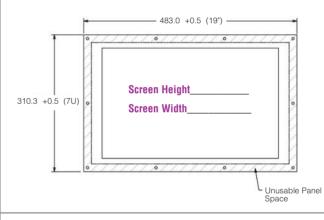




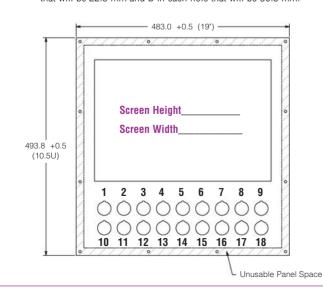
**7U with Pushbuttons** – Indicate the holes that you would like to activate by writing an A in each hole that will be 22.5 mm and B in each hole that will be 30.5 mm.



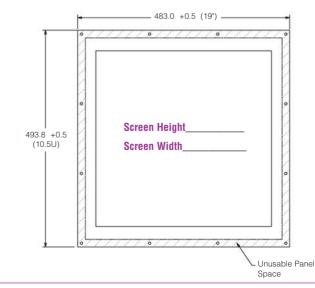
**7U** – Write the dimension for the panel cutout in the space provided below.



**10.5U with Pushbuttons** – Please write the dimensions for the panel cutout in the spaces provided below. Please indicate the holes that you would like to activate by entering an A in each hole that will be 22.5 mm and B in each hole that will be 30.5 mm.



**10.5U** – Please write the dimensions for the panel cutout in the spaces provided below.





# RITTALXPRESS 4-WEEK OPTIPANEL PROGRAM

Rittal Xpress is the easy way to create your ideal HMI with infinite configuration opportunities and have it delivered to your doorstep in just four weeks. Log onto www.rittal-corp.com/rittalxpress/HMI to fill out our real-time HMI configurator or work through pages 8 and 9 of this brochure to determine the dimensions and code configuration for your ideal Optipanel enclosure.

#### 4-WEEK ORDERING IS THIS EASY!

000

Follow the steps below. Step 1-fill in the dimensions of your panel in inches. Step 2-choose your Design Options. Step 3-Build your customized part number, by inserting the product code numbers in the appropriate box. Step 4-Upload your drawings to our website.

#### STEP 1 - Panel Dimensions Required Fill in specific size in inches



Hx

Wx

#### **STEP 2 - Design Options**

#### A Installation Depth

Choose the depth you want and place its code number in the build your enclosure chart in the space labeled A.







50 mm (1.97")

1

1

150 mm (5.91")

#### **B** Operator Housing

Choose the operator housing you want and enter its code number in the build your own enclosure chart in the space labeled B.





2

With cross member

#### C Rear Wall

Choose the rear wall you want and enter its code number in the build your own enclosure chart in the space labeled C.







Rear panel screw fastened Rear panel hinged on the longest edge.



**Step 3**, simply take the corresponding product code number by each of your selections in **Step 2** and place the numbers in the chart below. **Step 5**, fax the product code that you created by your selections in steps 2-4 along with your drawings to **1-800-477-4003**. Download our drawings from www.rittal-corp.com/rittalxpress/hmi and complete the drawings with your requirements. Submit the completed drawings along with your RFQ either online at **www.rittal-corp.com/rittalxpress/hmi** or fax to **1-800-477-4003**. Rittal will send a quote for your enclosure.



#### STEP 4 - Cut Out Specs

Download our drawings from **www.rittal-corp.com/rittalxpress/hmi** and complete the drawings with your requirements. Submit the completed drawings along with your RFQ either online at **www.rittal-corp.com/rittalxpress/hmi** or fax to **1-800-477-4003**.

000



## RITTALXPRESS 4-WEEK VIP PROGRAM

Rittal Xpress is the easy way to create your ideal HMI with infinite configuration opportunities and have it delivered to your doorstep in just four weeks. Log onto www.rittal-corp.com/rittalxpress/HMI to fill out our real-time HMI configurator or work through pages 10 - 13 of this brochure.

#### 4-WEEK ORDERING IS THIS EASY!

000

Follow the steps below. Step 1-fill in the dimensions of your panel in inches. Step 2-choose your basic features. Step 3-select your Operator Housing. Step 4-select your Keyboard Housing. Step 5-fill in your build your enclosure code. Step 6-Upload your drawings to our website: www.rittal-corp.com/rittalxpress/HMI

#### **STEP 1 - Panel Dimensions Required** Fill in specific size in inches

000

Hx

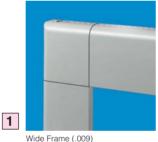
Wx

D

#### **STEP 2 - Basic Features**

#### A Frame Style

Choose the frame style you want and place its code number in the build your enclosure chart in the space labeled A.









**STEP 3 - Operator Housing** 

#### **B** Installation Depth

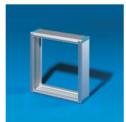
Choose the depth you want and place its code number in the build your enclsure chart in the space labeled B.

#### Material:

Enclosure:

Extruded aluminum section Corner protectors: Plastic, self-extinguishing

Enclosure: Natural anodized



Installation depth: 6.10" (155 mm)

Screv 1



Installation depth:



7.28" (185 mm)



000

Installation depth: 11.61" (295 mm)

4

5



Installation depth: 12.91" (328 mm)



Installation depth: 17.24" (438 mm)

#### **C** Front Design

Choose the front design you prefer and enter its code number in the build your own enclosure chart in the space labeled C.

#### Cross member

For horizontal and/or vertical division.

#### Material:

Extruded aluminum section BAI 7035

#### Sealing bar

For horizontal and/or vertical division. The "slot-free" division produces a height gain of 1.10" (28 mm).

#### Material:

Extruded aluminum section 8 x 0.79" (20 mm) natural anodized

#### Adaptor plate

0.12" (3 mm) aluminum, natural anodized



Without cross member



With one cross member



With two cross members

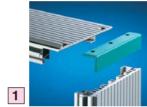


With hinged front panel

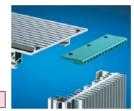
#### **D** Cooling Fins

Choose the cooling fins you prefer and enter its code number in the build your own enclosure chart in the space labeled D.

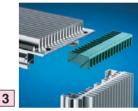
Enclosures with an installation depth of 185 mm (7.28") and 328 mm (12.91") do not have any fins immediately behind the front frame at a depth of 44 mm (1.73"). The color of the corner protectors matches the trim color selected under section F



No fins



Fins at sides



Continuous fins

#### **E** Trim Types

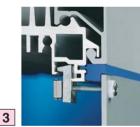
Choose the trim types you prefer and enter its code number in the build your own enclosure chart in the space labeled E.



Cover trim To conceal the front panel assembly screws. For front panel thickness up to 3.5 mm (0.14").



End trim between the front panel and the frame section. For all front panel



Spacer trim For installed equipment flush with the frame section. For front panel thickness up to approx. 3.5 mm (0.14").

#### **Trim Colors**

Choose the trim color you prefer and enter its code number in the build your own enclosure chart in the space labeled F.



1 Turqoise (similar to RAL 5018)



Bright blue (similar to RAL 5005)



Bright red (similar to RAL 3001)

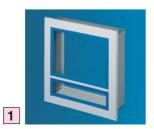


Pebble grey (similar to RAL 7030)



Graphite (similar to RAL 7024)

G Support Arm Connection - Choose the support arm connection you prefer and enter its code number in the build your own enclosure chart in the space labeled G.



Without connection



Connection, bottom



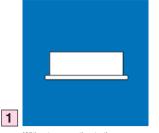
Connection, top



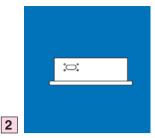
Connection, top and bottom, one cover plate included

#### **H** Mounting for Keyboard Housing

Choose the keyboard mounting you prefer and enter its code number in the build your own enclosure chart in the space labeled H.



Without connection to the keyboard housing



Connection to frame connector either fixed or adjustable

#### I Rear Panel

Choose the rear panel you prefer and enter its code number in the build your own enclosure chart in the space labeled I.



Screw fastened

Material:

Aluminum, natural anodized



Hinged For rapid service access

Material:

Aluminum, natural anodized.

#### J Keyboard Depth

Choose the keyboard depth you prefer and enter its code number in the build your own enclosure chart in the space labeled J.

Without fins.

For installing or positioning keyboards on top (with a depth of 1.06" (27 mm).

All keyboard housings are custom-produced to your dimensions. When selecting the wide front frame, the width of the keyboard housing depends on the operating housing.

Material:

Extruded aluminum section



Installation depth 1.73" (44 mm) for built-in keyboards

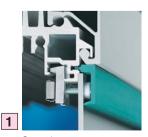


Installation depth 4.13" (105 mm) for built-in keyboards

#### K Trim Types

Choose the trim type you prefer and enter its code number in the build your own enclosure chart in the space labeled K.

Cannot be selected with keyboard housing depth 1.06" (27 mm) or support for keyboards.



Cover trim
To conceal the front panel assembly screws. For front panel thickness up to 0.14" (3.5 mm).



End trim
Attractively finishes off the space between the front panel and the frame section. For all front panel thicknesses.



Spacer trim
For installed equipment flush
with the frame section. For front
panel thickness up to approx.
0.14" (3.5 mm).

#### **STEP 4 - Keyboard Housing**

#### **Trim Colors**

Choose the trim color you prefer and enter its code number in the build your own enclosure chart in the space labeled L.

Note: Enclosure corner protectors are also





RAL 5018)

Bright blue

(similar to

RAL 5005)



Bright red (similar to RAL 3001)



Graphite (similar to RAI 7024)

000



RAI 7030)

#### **Keyboard Connector**

Choose the keyboard connector vou prefer and enter its code number in the build your own enclosure chart in the space labeled M.

Supplied loose with the keyboard housing for connecting operating housings and keyboard housings.

Material:

Die-cast zinc, RAL 7035



Frame connector, (fixed)



Frame connector (adjustable)

#### **Cable Tube**

Choose the cable tube you prefer and enter its code number in the build your own enclosure chart in the space labeled N.

Supplied loose with the keyboard housing for connecting operating housings and keyboard housings.

Material:

Die-cast zinc, RAL 7035



Without cable tube



Cable tube, rigid



Cable tube, flexible

Step 5, simply take the corresponding product code number by each of your selections in Steps 3 & 4 and place the numbers in the chart below. Step 6: Log onto www.rittal-corp.com/rittalxpress/hmi to download our drawings. Make your changes to our drawings and submit the complete drawings along with your RFQ either online at www.rittal-corp.com/rittalxpress/hmi or fax to 1-800-477-4003. Rittal will send a quote for your enclosure. Rittal will send a quote for your enclosure.

#### Step 5 - BUILD YOUR ENCLOSURE CODE









x Depth























000

x Width Height

Panel Dimension in inches

#### STEP 6 - Cut Out Specs

Log onto www.rittal-corp.com/rittalxpress/hmi to download our drawings. Make your changes to our drawings and submit the complete drawings along with your RFQ either online at www.rittal-corp.com/rittalxpress/hmi or fax to 1-800-477-4003. Rittal will send a quote for your enclosure.

## **Rittal HMI Solutions**



**Industrial Enclosures** 



**Wallmount Enclosures** 



**System Climate Control** 



**Power Distribution** 



**IT Solutions** 



**HMI Enclosures** 

Rittal Corporation • One Rittal Place • Springfield, OH 45504, USA

Phone: (937) 399-0500 • Fax 1-800-477-4003 • 1-800-477-4000 • www.rittal-corp.com • Email:rittal@rittal-corp.com

