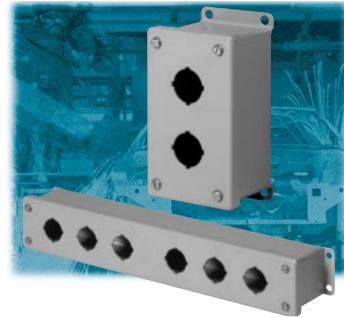








Standard/Slim Pushbutton Boxes



NEMA Rated Pushbutton Enclosures

These NEMA rated boxes are designed for indoor use to house pushbuttons, selector switches, pilot lights, etc., and to protect such equipment against dirt, dust, and spraying of water, oil or coolant.

Several models of these pushbutton enclosures can be mounted onto a Rittal Electromate column and base and used as an operator station.



Miniature Pushbutton Boxes



NEMA Rated Pushbutton Enclosures

These NEMA rated boxes are designed for indoor use to house pushbuttons, selector switches, pilot lights, etc., which mount in miniature "4-way" pushbutton holes, and to protect such equipment against dirt, dust, and spraying of water, oil or coolant.

Several models of these pushbutton enclosures can be mounted onto a Rittal Electromate column and base and used as an operator station.



Configuration

- Continuously welded seams, finished smooth
- Poron strip gasket
- Standard pushbutton holes accept all brands of 30.5 mm "4-way" oil tight pushbuttons, switches, and pilot lights
- Captive plated screws to hold cover
- · External mounting brackets

Technical Specifications

Actorial:

• Enclosure/cover: 14 gauge carbon steel

Finish/color:

 Enclosure/cover: polyester-urethane powder coat over phosphatized surfaces, inside and outside – ANSI 61 grey

Protection	n Rat	ings				
NEMA Type	rotection Ratings IA Type					
Certificati	ions/	Аррі	rova	ls		

Technical Drawings	
PagesHA	AI 51-59

Configuration

- Continuously welded seams, finished smooth
- · Poron strip gasket
- Standard pushbutton holes accept all brands of 22.5 mm "4-way" oil tight pushbuttons, switches, and pilot lights
- Captive plated screws hold cover
- External mounting brackets

Technical Specifications

Motorial.

• Enclosure/cover: 14 gauge carbon steel

Finish/color:

 Enclosure/cover: polyester-urethane powder coat over phosphatized surfaces, inside and outside – ANSI 61 grey

Protection	n Rating	s			
NEMA Type	1 4	 4X	12	13	
Certificati	ions/App	orova	ls		
Listings	UL CUI	. CSA	U TÜV		
Technical	Drawin	gs			
Page					HMI 5

	S	tandard Pushbutton Box		Accessories
Part No.		Outside dimensions (inches)		Oil tight hole seals
	Н	W	D	
E 1PB	3.50	3.25	2.75	See accessories section
E 2PB	5.75	3.25	2.75	See accessories section
E 3PB	8.00	3.25	2.75	See accessories section
E 4PB	10.25	3.25	2.75	See accessories section
E 4SPB	7.25	6.25	3.00	See accessories section
E 5PB	12.50	3.25	2.75	See accessories section
E 6PBVL	14.75	3.25	2.75	See accessories section
E 6PB	9.50	6.25	3.00	See accessories section
E 8PB	20.25	3.25	2.75	See accessories section
E 9PB*	9.50	8.50	3.00	See accessories section

^{*} Can be mounted to a Rittal Electromate column and base.

	SI	im Pushbutton Box		Accessories
Part No.		Oil tight hole seals		
	Н	W	D	
E 1PBSL	4.00	2.50	2.50	See accessories section
E 2PBSL	6.25	2.50	2.50	See accessories section
E 3PBSL	8.50	2.50	2.50	See accessories section
E 4PBSL	10.75	2.50	2.50	See accessories section
E 6PBSL*	16.25	2.50	2.50	See accessories section

^{*} Add an additional 1" between pushbutton holes at center of enclosure.

		Accessories						
Part No.		Outside dimensions (inches)						
	Н	W	D					
E 1PBGM	3.25	2.75	3.50	See accessories section				
E 2PBGM	5.13	2.75	3.50	See accessories section				
E 3PBGM	7.00	2.75	3.50	See accessories section				
E 4PBGM	8.88	2.75	3.50	See accessories section				
E 6PBGM*	8.50	5.00	4.25	See accessories section				

^{*} Can be mounted to a Rittal Electromate column and base.

Extra Deep Pushbutton Boxes



NEMA Rated Pushbutton Enclosures

These NEMA rated boxes are designed for indoor use to house pushbuttons, selector switches, pilot lights, etc., and to protect such equipment against dirt, dust, and spraying of water, oil or coolant. Their extra depth accommodates stacked pushbutton units.

Several models of these pushbutton enclosures can be mounted onto a Rittal Electromate column and base and used as an operator station.



Sloping Front Pushbutton Boxes



NEMA Rated Pushbutton Enclosures

These NEMA rated boxes feature a slanted front and are designed for indoor use to house pushbuttons, selector switches, pilot lights, etc., and to protect such equipment against dirt, dust, and spraying of water, oil or coolant. Several models of these pushbutton enclosures can be mounted onto a Rittal Electromate column and base and used as an operator station.

Configuration

- · Continuously welded seams, finished smooth
- · Poron strip gasket
- Standard pushbutton holes accept all brands of 30.5 mm "4-way" oil tight pushbuttons, switches, and pilot lights
- Captive plated screws hold cover
- · External mounting brackets

Technical Specifications

• Enclosure/cover: 14 gauge carbon steel

Finish/color:

• Enclosure/cover: polyester-urethane powder coat over phosphatized surfaces, inside and outside - ANSI 61 grey

Protection	Rat	ings				
NEMA Type	1	4	 4X	12	13	
Certification	ons/	Аррі	rova	ls		
Listings	UL	CUL	□ CSA	□ TÜV		
Technical	Drav	ving	s			
Page						.HMI 53

	Pushbutton Box								
Part No.	Part No. Outside dimensions (inches)								
	Н	W	D						
E 1PBXD	4.00	4.00	4.75	See accessories section					
E 2PBXD	6.00	4.00	4.75	See accessories section					
E 3PBXD	8.00	4.00	4.75	See accessories section					
E 4PBXD	10.00	4.00	4.75	See accessories section					
E 6PBXD*	9.50	6.25	4.75	See accessories section					

^{*} Can be mounted to Rittal Electromate column and base.

Configuration

- · Continuously welded seams, finished smooth
- · Poron strip gasket
- Standard pushbutton holes accept all brands of 30.5 mm "4-way" oil tight pushbuttons, switches, and pilot lights
- · Captive plated screws hold cover
- External mounting brackets

Technical Specifications

• Enclosure/cover: 14 gauge carbon steel

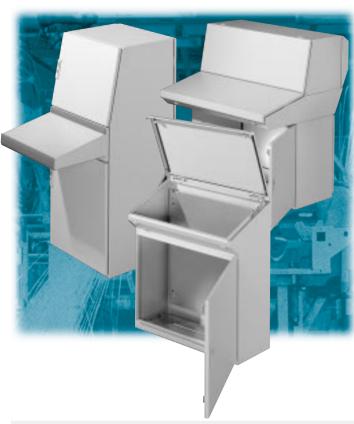
Finish/color:

• Enclosure/cover: polyester-urethane powder coat over phosphatized surfaces, inside and outside - ANSI 61 grey

Protection	Rat	ings				
NEMA Type	1	4	 4X	12	13	
Certification	ons/	Аррі	rova	s		
Listings	UL	CUL	□ CSA	□ TÜV		
Technical	Drav	ving	s			
Page						.HMI 54

		Pushbutton Box		Accessories		
Part No.			Oil tight hole seals			
	Н	W	D			
E 1PBA	3.50	3.25	4.88	See accessories section		
E 2PBA	3.50	5.50	4.88	See accessories section		
E 3PBA	3.50	7.75	4.88	See accessories section		
E 4PBA	3.50	10.00	4.88	See accessories section		
E 4SPBA	7.25	6.25	6.75	See accessories section		
E 6PBA	7.25	8.50	6.75	See accessories section		
E 9PBA	9.50	8.50	7.88	See accessories section		

AP Desk Consoles



Desk Console System

Rittal's AP Series console system answers the need for variability, performance, safety, assembly, and aesthetics for operator interface applications. The AP design allows unlimited combinations of bottom, center, and top sections. Also available are complete, one-piece desk units. Their perfect design facilitates easy assembly and provides security and usability.

Universal Console System

The universal AP console is the newest addition to the AP family. It features a uni-body construction with an integrated 25 mm interior hole pattern for easy component installation. Available with or without an optional desk unit, it also features a full-sized mounting panel.

			End	closure					Moun	ting Panel	
Part No.	Number			Exact outside	dimensions			Dimensions			
	Of		inches			mm		inc	hes	m	m
	Doors	Н	W	D	Н	W	D	Н	W	Н	W
Bottom Section	n		_								
2600600 ¹	1 f	26.38	31.50	15.75	670	800	400	23.62	28.15	600	715
2620600 ²	2 f	26.38	47.24	15.75	670	1200	400	23.62	43.90	600	1115
2610600 ³	1 f/1 r	26.38	31.50	19.69	670	800	500	20.94	27.64	532	702
26406004	2 f/2 r	26.38	47.24	19.69	670	1200	500	20.94	43.39	532	1102
2650600 ⁵	2 f/2 r	26.38	62.99	19.69	670	1600	500	20.94	59.13	532	1502
Center Section	n										
2611200 ¹	1	7.87	31.50	33.46	200	800	850	-	-	-	-
2641200 ²	1	7.87	47.24	33.46	200	1200	850	-	-	-	-
2613200 ³	1	7.87	31.50	37.40	200	800	950	-	-	-	-
26432004	1	7.87	47.24	37.40	200	1200	950	-	-	-	-
2653200 ⁵	1	7.87	62.99	37.40	200	1600	950	-	-	-	-
Top Section											
2612600 ¹	1 f	16.93	31.50	15.75	430	800	400	13.78	28.15	350	715
2642600 ²	1 f	16.93	47.24	15.75	430	1200	400	13.78	43.90	350	111
2614600 ³	1 f/1 r	16.93	31.50	19.69	430	800	500	13.70	28.62	348	727
26446004	1 f/1 r	16.93	47.24	19.69	430	1200	500	13.70	44.37	348	112
2647600 ³	1 f/ 1 r	24.80	31.50	23.62	630	800	600	21.57	28.62	548	727
26486004	1 f/1 r	24.80	47.24	23.62	630	1200	600	21.57	44.37	548	112
26496005	1 f/1 r	24.80	62.99	23.62	630	1600	600	21.57	60.12	548	152
Desk Console	System										
2666600	1 f	37.80	23.62	15.75/18.90	960	600	400/480	30.71	20.87	780	530
2668600	1 f	37.80	31.50	15.75/18.90	960	800	400/480	30.71	28.74	780	730
2670600	1 f	37.80	39.37	15.75/18.90	960	1000	400/480	30.71	36.61	780	930
2672600	1 f	37.80	47.24	15.75/18.90	960	1200	400/480	30.71	44.49	780	113
Universal Con	sole Syster	n		•							
2694600	2 f/1 r	51.18	23.62	16.42/19.76	1300	600	417/502	47.05	19.57	1195	497

Note: When specifying two or three-part consoles, please use the superscript number to match bottom, center and top sections.

Configuration

- Doors front and rear on specific models
- Safety catches and cables secure open lid
- Mounting panel included
- Depth adjustable mounting panel for AP 2610600/2640600/2650600/2694600
- 2-part and 3-part cable entry panels
- Integrated mounting rails in center section
- Knife-edge design protects against liquid entry
- Maximum strength and stability through unibody construction
- E-coat primer and powder paint provide superior corrosion resistance
- Integrated grounding provisions
- Foamed-on gasket
- Modular bottom, center, and top sections allow a variety of combinations for specific applications
- Top sections are available in two heights and depths
- System installation holes (Univeral console) (25 mm spacing) PS
- Desk unit can be rotated 180° for either sloped or horizontal desk surface (Universal console)
- Full height mounting panel (Universal console)

Technical Specifications

• Sheet steel housing: 16 ga/1.5 mm

NEMA

Doors and lids: 14 ga/2 mm

• Mounting panel: 11 ga/3 mm, hot dipped

Finish/color:

galvanized zinc

Material:

- Housing, doors, and lids: E-coat primed, powder painted, RAL 7032 pebble grey
- Mounting panel: Type M
- Universal console trim: RAL 5018 teal green

Protection Ratings

NEMA Type

1 4 4X 12 13

Certifications/Approvals

Listings

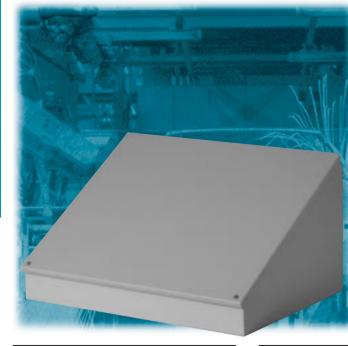
UL CUL CSA TÜV

Technical Drawings

					Accessorie	es .					
Part No.	Bas	ses	Base	Console	Aluminum	Han	dles	Inductive	Inductive	Inductive	Mouse pad
			castors	lid	pencil			mouse (COM	mouse pad	mouse pad	support
	4" high	8" high			ledge	Ergoform-S	Pushbutton	or PS/2)	(COM)	(PS/2)	
Bottom Section					•						
2600600	2901200	2902200	4570000	2615200	-	2450000	2468000	-	-	-	-
2620600	2921200	2922200	4570000	2645200	-	2450000	2468000	-	-	-	-
2610600	2841200	2842200	4570000	2616200	-	2450000	2468000	-	-	-	-
2640600	2851200	2852200	4570000	2646200	-	2450000	2468000	-	-	-	-
2650600	2863200	2864200	4570000	2656200	-	2450000	2468000	-	-	-	-
Center Section											
2611200	-	-	-	2615200	2678000	-	-	6445000	6444000	6444500	2380000
2641200	-	-	-	2645200	2682000	-	-	6445000	6444000	6444500	2380000
2613200	-	-	-	2616200	2678000	-	-	6445000	6444000	6444500	2380000
2643200	-	-	-	2646200	2682000	-	-	6445000	6444000	6444500	2380000
2653200	-	-	-	2656200	-	-	-	6445000	6444000	6444500	2380000
Desk Console Sys	tem										
2666600	2911200	2912200	4570000	-	2676000	2450000	2468000	6445000	6444000	6444500	2380000
2668600	2901200	2902200	4570000	-	2678000	2450000	2468000	6445000	6444000	6444500	2380000
2670600	2891200	2892200	4570000	-	2680000	2450000	2468000	6445000	6444000	6444500	2380000
2672600	2921200	2922200	4570000	-	2682000	2450000	2468000	6445000	6444000	6444500	2380000

					Accessorie	es				
	Part No.	Bas	ses	Desk unit	Han	idles	Inductive	Inductive	Inductive	Mouse pad
					Ergoform-S Pushbutton		mouse (COM	mouse pad	mouse pad	support
		4" high	8" high			insert	or PS/2)	(COM)	(PS/2)	
L	Universal Console	System								
	2694600	2807200	2808200	2696200	2450000	2468000	6445000	6444000	6444500	2380000

Consoles, Pedestals and Bases



Carbon Steel Desk Units

These NEMA rated individual desk units are designed for indoor use to meet the requirements of most operator interface applications.

Control components such as meters, pushbuttons, pilot lights, and switches, can be mounted on the top-hinged control panel that slants 30° or 60°.

Pedestal and base assemblies allow the desk units to be floor mounted. Wiring connections can be made through the base, the vertical column or directly to the desk unit.



Configuration

Console:

OPERATOR INTERFACE

- Continuously welded seams, finished smooth
- Poron strip gasket
- Control panel slants 30° or 60° and is attached with a continuous steel hinge at top and secured with captive screws

Pedestal/column:

- Removable, gasketed access plate in column body
- Urethane gasket

Base:

- Pre-punched holes to accept column
- Two formed channels welded to underside of base

Technical Specifications

Material:

- Console/desk unit: 14 gauge carbon steel
- Pedestal/column: 14 gauge carbon steel with 10 gauge steel mounting flange at each end
- Base: 12 gauge carbon steel

Finish/color:

 All steel parts: polyester-urethane powder coat over phosphatized surfaces, inside and outside – ANSI 61 grey

rotection	i itatings	
NEMA Type	1 4 4X 12	13
Certificati	ons/Approvals	
Listings	UL CUL CSA TÜV	
Technical	Drawings	
Dages		HMI 60-6

Series Operator Enclosures



Carbon Steel Freestanding Consoles

These NEMA rated freestanding steel operator consoles are designed for indoor use and meet the requirements of a variety of operator interface applications.

Control instruments such as pushbuttons, pilot lights, meters, switches, etc., can be mounted on the control panel that slants 16° (Series 9), 45° (Series 12) and 60° (Series 14). Optional console top and/or writing desk provide additional flexibility. Control equipment components can be mounted on removable sub-panels on the side and back walls inside the enclosure.

Configuration

- Continuously welded seams, finished smooth
- Urethane gasket
- Control panel slants (Series 9 slants 16°, Series 12 slants 45°, Series 14 slants 60°) and is attached with a continuous steel hinge at front and secured with captive screws
- Mechanical brace to hold control panel open to 90°
- 3-point latch with oil tight key locking handle
- · Mounting panel provisions installed
- Print pocket included

Technical Specifications

Material:

• Enclosure/door: 14 gauge carbon steel

Finish/color:

- Enclosure/door: polyester-urethane powder coat over phosphatized surfaces, ANSI 61 grey outside and white inside
- Optional mounting panels: painted white

Protection	ı Rat	ings				
NEMA Type	1	4	□ 4X	12	13	
Certificati	ons/	Аррі	rova	ls		
Listings	UL	CUL	□ CSA	□ TÜV		
Technical	Drav	ving	s			

		Console	
Part No.		Outside dimensions (inches)	
	Н	W	D
Consoles			
E 8C8	8.00	8.00	7.09
E 8C12	8.00	12.00	7.09
E 8C16	8.00	16.00	7.09
E 12C12	12.00	12.00	9.09
E 12C16	12.00	16.00	9.09
E 12C20	12.00	20.00	9.09
E 16C20	16.00	20.00	11.09
E 16C24	16.00	24.00	11.09
Pedestals			
E 44CCOL	4.00	4.00	-
E 66CCOL	6.00	6.00	-
Bases		·	
E 18SBASE	18.00	18.00	-
E 24SBASE	24 00	24 00	-

ı		Series 9 Console													
	Part No.				Rear mounting	Rear mountir	ng panel size	Side mounting	Side mountin	g panel size	Caster kit				
		Height	Width	Depth	panel			panel							
	E C924B	48.00	24.00	18.00	E 30P20	27.00	17.00	E 30P20	27.00	17.00	E C10C				
	E C936B	48.00	36.00	18.00	E 30P30	27.00	27.00	E 30P20	27.00	17.00	E C10C				

	Series 12 Console													
Body	Body Top Width Rear mounting Top Instrument panel Access panel Writing Caster													
Catalog No.	Height	Height		pane	el size	Catalog					Desk	Kit		
						No.					Catalog	Catalog		
											No.	No.		
E C12B	36.00	20.00	36.00	32.00	30.00	E C12T	19.19	35.19	20.19	32.19	E C12W	E C12C		

	Series 14 Console															
Body	Тор	Body	Top	Width	Half	H	alf	Full	Fi	ull	Swingout	Swir	ngout	Writing	Relay	Caster
Part No.	Part No.	height	height		Mounting	mou	ınting	Mounting	mou	nting	Mounting	mou	nting	Desk	Rack	Kit
					Panel	pane	l size	Panel	pane	l size	Panel	pane	el size	Part No.	Part No.	Part No.
					Part No.	Н	W	Part No.	Н	W	Part No.	Н	W			
E C14B	E C14T	50.00	16.00	24.00	E C14P2	22.00	17.00	E C14P3	42.50	17.00	E C14P1	22.00	18.13	E C14W	E C14R	E C12C
E C1436B	E C1436T	50.00	16.00	36.00	E C1436P2	22.00	29.00	E C1436P3	42.50	29.00	E C1436P1	22.00	30.13	E C1436W	E C14R	E C12C

PC Computer Enclosures



TS8 PC Enclosures

NEW! Check out the latest in enclosure technology with Rittal's latest TS-based PC enclosure. Based on the revolutionary TS8 16-fold frame, these PC enclosures feature two levels of installation in the vertical profile for increased space and internal mounting for component shelves and more.

Standard PC Freestanding Enclosures

PCs are important interfaces in today's computer-aided manufacturing environment. The Rittal PC computer enclosure houses monitor, CPU, keyboard, printer, and/or other components in one cabinet that is equally at home on the shop floor as in an office environment.

Standard PC ValuePack Enclosures

Designed to offer a pre-packaged PC solution, the Rittal PC ValuePack offers an enclosure that is based on standard components that can be ordered with just a single number.

PC Desktop/Pedestal Enclosures

The PC Desktop/Pedestal enclosure is a one piece unit designed to sit on a desk, table top or a pedestal.

			TS8 PC Enc	losures					
Part No.	Configuration	Keyboard	Availability			Exact outsid	e dimensions		
		storage			inches			mm	
				Н	W	D	Н	W	D
8366000	Safety glass	Drawer	July 2001	63	24	25	1600	600	636
8366100	Safety glass	Fold-down	August 2001	63	24	25	1600	600	636
8368000	Safety glass	Drawer	September 2001	63	24	33	1600	600	836
8368100	Safety glass	Fold-down	September 2001	63	24	33	1600	600	836

			Standard PC F	reestanding Er	closures			
Part No.	Configuration	Keyboard			Exact outsid	e dimensions		
		storage		inches			mm	
			Н	W	D	Н	W	D
4603603	Solid front panel	Drawer	63	24	26	1600	600	650
4603604	Solid front panel	Console	63	24	26	1600	600	650
4603703	Safety glass	Drawer	63	24	26	1600	600	650
4603704	Safety glass	Console	63	24	26	1600	600	650
4603820	Solid front panel	Fold-down	63	24	26	1600	600	650
4603913	Safety glass	Drawer/Panel	63	24	26	1600	600	650
4603920	Safety glass	Fold-down	63	24	26	1600	600	650
4609703	Safety glass	Drawer	63	24	34	1660	600	850
4609920	Safety glass	Fold-down	63	24	34	1600	600	850
21" PC Enclosure	9							
4820210	Safety glass	Drawer	63	32	32	1600	800	800

	PC ValuePack Enclosures												
Part No.	Base PC	Climate	Reference			Exact outs	ide dimensions						
	enclosure	Control	part		inches			mm					
		method	number	Н	W	D	Н	W	D				
9968185	4603703	2400 BTU Air Conditioner	3262100	63	24	26	1600	600	650				
9968186	4609703	2400 BTU Air Conditioner	3262100	63	24	34	1600	600	850				
9968187	4603703	115 cfm Filter Fan w/Outlet	3325117/207	63	24	26	1600	600	650				
9968188	4609703	115 cfm Filter Fan w/Outlet	3325117/207	63	24	34	1600	600	850				

			PC Desktop	/Pedestal Encl	osures					
Part No.	Configuration	Keyboard			Exact outsid	e dimensions				
		storage		inches			mm			
			Н	W	D	Н	W	D		
4617703	Safety glass	Drawer	30	24	26	750	600	650		
4617704	Safety glass	Console	30	24	26	750	600	650		
4617913	Safety glass	Drawer/Panel	30	24	26	750	600	650		
4617920	Safety glass	Fold-down	30 24 26 750 600 650							

Configuration

TS8 PC Enclosures

- All standard TS8 enclosure features
- · Viewing door w/security glass
- Integrated pull-out keyboard w/mouse pad that can be pulled out left/right
- Vented monitor and component shelves prevent heat build-up

Standard PC Freestanding Enclosures

- Knife-edge design averts liquid away from gasket
- Easy access to interior components from all sides
- Integrated grounding provisions on all surfaces
- Time saving quick assembly method through the use of the .98"/25 mm hole pattern
- · Foamed-on gasket
- Rear door
- Accepts up to 19" monitors (21" on select models)
- · E-coat primer and powder paint provide superior corrosion resistance

PC ValuePack Enclosures

- Pre-installed climate control
- Pullout keyboard/integrated mouse pad
- · Additional vented shelf
- Casters with brakes
- Powerstrip

Technical Specifications

TS8/Standard/ValuePack Enclosures Material:

- Body: 16/1.5 mm sheet steel
- Rear door: 14 ga/2 mm sheet steel • Side walls: 16 ga/1.5 mm sheet steel
- Bottom front door: 14 ga/2 mm sheet steel
- Corner trim panels: extruded aluminum
- Monitor panel: 3 mm security glass with
- 19" or 21" mask
- Keyboard front panel: plastic UL 94-VO

Finish/color:

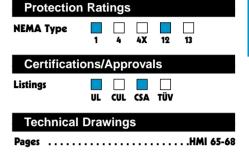
- Body: E-coat primed, powder painted. RAL 7035 pebble grey
- Corner trim panels: powder painted, RAL 5018 teal green

PC Desktop/Pedestal Enclosures Material:

- Housing and rear door: 16 ga/1.5 mm sheet
- Viewing door: aluminum with safety glass

Finish/color:

- Body: E-coat primed, powder painted, RAL 7035 pebble grey
- Corner trim panels: powder painted, RAL 5018 teal green



					TS8 PC E	nclosure	Accessories	6				
Part No.	TS/PC Base*	4" h	igh	8" h	igh	To	ower PC Carriag	е	Vented shelf*	Inductive	Inductive	Inductive
	*Available base base								*Available	mouse (COM	mouse pad	mouse pad
	11/2001	W	D	W	D	Carriage	Installation kit	Extra shelf	9/2001	or PS/2)	(COM)	(PS/2)
8366000	8800920	8601600	8601060	8602600	8602060	4641000	8612060	4642000	8800900	6444500	6444000	6445000
8366100	8800920	8601600	8601060	8602600	8602060	4641000	8612060	4642000	8800900	6444500	6444000	6445000
8368000	8800930	8601600	8601080	8602600	8602080	4641000	8612080	4642000	8800910	6444500	6444000	6445000
8368100	8800930	8601600	8601080	8602600	8602080	4641000	8612080	4642000	8800910	6444500	_	6445000

0300100	000093	0 8001	000 000	1000 00	002000	0002000	4041000 8012080	4042	000 6600	910 644	14500	-	0445000		
	Standard PC Freestanding Enclosure Accessories														
Part No.	Ba	ses	Reinforced		Shelf		Tower PC Carriage		Inductive	Inductive	Inductive	Mouse pad	Mouse		
	4" high	Mobile	castors	pad		Carriage	Carriage Installation Kit		mouse	mouse pad	mouse pad	support	holder		
								shelf	(COM or PS/2) (COM)		(PS/2)				
4603603	2813200	4640600	4634000	4614000	4619660	4641000	4376/4183/4162/9962544	4642000	6444500	6444000	6445000	2380000	2382000		
4603604	2813200	4640600	4634000	-	4619660	4641000	4376/4183/4162/9962544	4642000	6444500	6444000	6445000	2380000	2382000		
4603703	2813200	4640600	4634000	4614000	4619660	4641000	4376/4183/4162/9962544	4642000	6444500	6444000	6445000	2380000	2382000		
4603704	2813200	4640600	4634000	-	4619660	4641000	4641000 4376/4183/4162/9962544 46		6444500	6444000	6445000	2380000	2382000		
4603820	2813200	4640600	4634000	4613000	4619660	4641000	4376/4183/4162/9962544	4642000	6444500	6444000	6445000	2380000	2382000		
4603913	2813200	4640600	4634000	4614000	4619660	4641000	4376/4183/4162/9962544	4642000	6444500	6444000	6445000	2380000	2382000		
4603920	2813200	4640600	4634000	4613000	4629660	4641000	4376/4183/4162/9962544	4642000	6444500	6444000	6445000	2380000	2382000		
4609703	2846200	4640800	4634000	4614000	4619680	4641000	4377/4183/4162/9962544	4642000	6444500	6444000	6445000	2380000	2382000		
4609920	2846200	4640800	4634000	4613000	4629680	4641000	4377/4183/4162/9962544	4642000	6444500	6444000	6445000	2380000	2382000		
21" PC Er	nclosure	·		•	•	•		•			•				
4820210	2848200	2986200	4634000	included	-	4641000	7127035	4642000	6444500	6444000	6445000	2380000	2382000		

	PC ValuePack Enclosure Accessories												
Part No.	Bas	ses	Reinforced	Mouse	Shelf		Tower PC Carriage			Inductive	Inductive	Mouse pad	Mouse
	4" high	Mobile	castors	pad		Carriage	Installation Kit	Extra	mouse	mouse pad mouse pa		support	holder
								shelf	(COM or PS/2)	(COM)	(PS/2)		
9968185	2813200	4640600	4634000	4614000	4619660	4641000	4641000 4376/4183/4162/9962544		6444500	6444000	6445000	2380000	2382000
9968186	2846200	4640800	4634000	4614000	4619680	4641000	4641000 4377/4183/4162/9962544 4		6444500	6444000	6445000	2380000	2382000
9968187	2813200	4640600	4634000	4614000	4619660	4641000	4376/4183/4162/9962544	4642000	6444500	6444000	6445000	2380000	2382000
9968186	2846200	4640800	4634000	4614000	4619680	4641000	4377/4183/4162/9962544	4642000	6444500	6444000	6445000	2380000	2382000

	PC Desktop/Pedestal Enclosure Accessories													
Part No.	Pedestals		Pedestal accessories		Mouse pad	Shelf	Inductive	Inductive	Inductive	Mouse pad	Mouse			
	Without cable	With cable	Mounting	Casters			mouse	mouse pad	mouse pad	support	holder			
	conduit conduit		bracket				(COM or PS/2)	(COM)	(PS/2)					
4617703	6141000 6141100		6147000	6148000	4614000	4619660	6445000	6444000	6444500	2380000	2382000			
4617704	6141000 6141100		6147000	6148000	-	4619660	6445000	6444000	6444500	2380000	2382000			
4617913	6141000 6141100		6147000	6148000	4614000	4619660	6445000	6444000	6444500	2380000	2382000			
4617920	6141000	6141100	6147000	6148000	4613000	4629660	6445000	6444000	6444500	2380000	2382000			

PERATOR

VIP Flat Panel Enclosures



Flat Panel Enclosure System

Rittal's VIP 6000 operator interface system offers modular solutions for countless flat panel applications. The VIP is made-to-order in a variety of sizes and versions that can be adapted to your specific requirements.

Its contemporary design showcases control technology in an attractive package, as well as provides optimum ergonomics for the operator while keeping heat-sensitive electronic components cool.

The modular flat panel system is available with a keyboard housing or tray. The keyboard housing lets you intregrate your own control panel and the keyboard tray accommodates most standard PC keyboards.

This efficient operator interface system also offers a wide variety of accessories including vertical and/or horizontal handle sets, clip boards, and may be combined with support arm systems CP-L, CP-XL, or CP-Vertical.

Two new frame bezel designs have been added to the current VIP wide frame bezel that will allow further customization of the VIP enclosures. The new narrow frame bezel enhances the aesthetics of the VIP and reduces the overall size of the VIP by almost 2". The new "combined" frame bezel has the same features of the narrow bezel plus integrated rubberized grips

Configuration

- · Three frame designs allow further customization
- · Designed to be used with CP-L, CP-XL, or CP-Vertical pendant arm systems
- · Mounting channels on all sides facilitate component installation
- The interior of the housing is accessible through either a hinged rear door or a screwed-on aluminum rear panel
- A mounting kit can be clipped-in to accommodate installation of a variety of control panel components and displays Colored plastic strips cover mounting
- screws and enhance the design of your product
- Cable duct for easy routing from enclosures to keyboard housing
- · Enclosures can be ordered with, without, or a combination of cooling fins
- · The enclosure front can be partitioned with optional cross mullion
- · Optional accessories such as handles, clipboards, and front panels are available

Technical Specifications

Material:

- · Housing and front frame: extruded aluminum
- Frame corner pieces: zinc die-cast
- Corner protection pieces for housing: self-extinguishing plastic
- Trim strips: flexible plastic

Finish:

- · Housing frame: natural anodized
- Front frame and frame corner pieces: textured enamel; RAL 7035 light grey
- Trim strips: RAL 5018 teal. RAL 5012 blue. RAL 4006 purple, RAL 7030 grey, RAL 3001 red, RAL 7024 graphite grey
- Wide frame: RAL 7035 light grey
- Narrow frame: RAL 7035 light grey
- Combined frame: RAL 7035 light grey with soft rubber coating (RAL 7024)

Protection Ratings

1 4 4X 12 13 NEMA Type

Certifications/Approvals

Listings UL CUL CSA TÜV

Technical Drawings

New Frame Bezel Designs

on the sides.



.009 Wide VIP 6000 Frame

Wide front frame of extruded

zinc corner pieces.

aluminum sections and die-cast





.109 Combined VIP 6000 Frame

Narrow front frame of extruded aluminum sections and die-cast zinc corner pieces.

.209 Narrow VIP 6000 Frame



Combination of narrow front frame top and bottom (made from extruded aluminum sections and die-cast zinc corner pieces). plus soft frame at the sides.

Determine The Panel Dimensions

It's so easy.

First determine the height and width of your planned operator panel and check the following installation criteria. If these criteria are met, you are ready to install directly in one of three VIP frames. customized to your dimensions. The dimensions of the selected operating housing (3.), the keyboard housing (4.) and the handle sets etc. are automatically tailored to match the frame. In exceptional cases to which other conditions apply, Rittal also has the answer.

- 1. 7 to 13 mm spacing of the fixing holes or bolts.
- 2. Front plate projection at sides with fixing holes at least 17 mm, and at sides without fixing holes at
- 3. Front plate thickness variable, depending on the type of trim section.

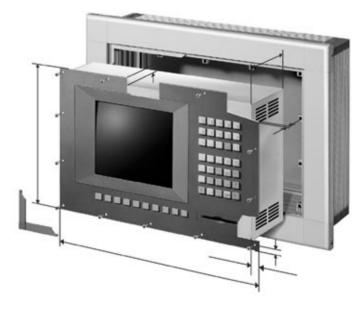
4. Installation depths:

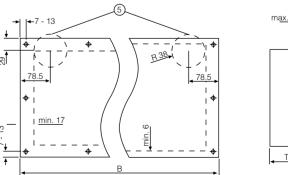
Command panels = 155 mm, 185 mm, 295 mm, 328 mm. 438 mm.

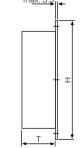
Command panels with 45 mm deep rear panel* = 200 mm, 230 mm, 340 mm, 373 mm, 483 mm.

Command panels with 245 mm deep rear panel* = 400 mm, 430 mm, 540 mm, 573 mm, 683 mm.

5. For versions with a hinged rear panel, the maximum installation depth is reduced by 27 mm in the vicinity of the lock.







HMI 11 HMI 12

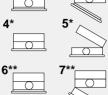
^{*} Other depths available on special request

VIP 6000 Operator Enclosure Design

3.1 Operator Enclosure Installation depth:

- **1** 6.10"/155 mm
- 2 7.28"/185 mm screw-on 3 7.28"/185 mm - hinged
- 4 11.61"/295 mm screw-on
- 5 11.61"/295 mm hinged
- 6 12.91"/328 mm screw-on
- 7 12.91"/328 mm hinged
- 8 17.24"/438 mm screw-on
- **9** 17.24"/438 mm hinged

Example



0



The colored numbers identify the version we've selected for our example.

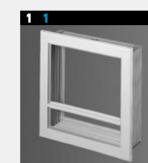
*Use CP-L support arm system **Use CP-XL support

arm system View from the top. Other hinges available, if required.









3.2 Cross Member/Sealing Bar **0** Without cross member or

- sealing bar 1 With one cross member
- 2 With one sealing bar
- 3 With two cross members 4 With two sealing bars
- 5 With one cross member
- and one sealing bar 6 With an adaptor plate*
- 7 With spacer and installation blanking plate above*3)
- 8 With spacer and installation blanking plate below*3)
- Special request only—extended lead times.

3) Only in connection with end trim

3.3 Cooling Fins

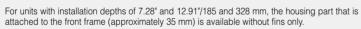
- 1 No fins
- 2 Fins on sides only
- 3 Fins all around
- 4 For aggressive cooling requirements.











3.4 Types Of Trim Strips

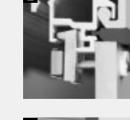
- 1 Cover trim
- **2** End trim
- 3 Spacer trim

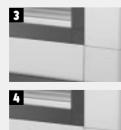
3.5 Trim Colors

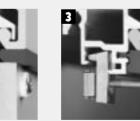
- 1 Teal (similar to RAL 5018)
- 2 Light blue (similar to RAL 5012)
- 3 Bright red (similar to RAL 3001)
- 4 Purple (similar to RAL 4006)
- 5 Dark grey (similar to RAL 7030)
- 6 Graphite grey (similar to RAL 7024)





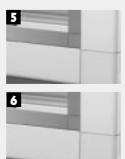


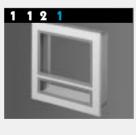














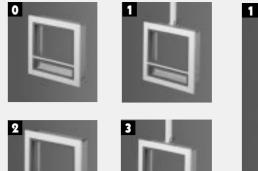
3.6 Support Arm Connection

- 0 Without connection
- 1 Connection at top
- 2 Connection at bottom
- 3 Connection at top and at bottom (includes one cover panel)

Two different support arm systems are available:

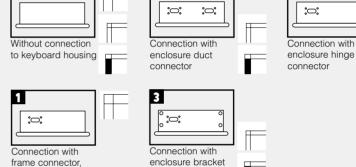
- CP 6500 is designed for enclosures with installation depths of 6.10", 7.28", and 11.61"/155, 185, and 295 mm.
- CP 6000 is designed for enclosures with installation depths 12.91" and 17.24"/328 and 438 mm.

3.7 Cable Duct Connection









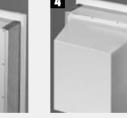


3.8 Rear Wall

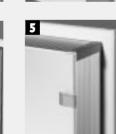
- 1 Screw-on.**
- 2 Hinged, on longest side, lock with double bit insert.**
- 3 Expansion back plus 1.77"/45 mm* sheet steel. light grey (RAL 7035), hinged, integral screw lock.
- 4 Expansion back plus 9.64"/ 245 mm* aluminum, light grey (RAL 7035), screw-on. 5 Heavy-duty hinge for heavy
- installed equipment.** 6 Screw-fixed with built-in small VIP air conditioners. Recommended for Command Panel versions 3, 5, 7, 9.
- Condenser assembly, top left** 7 Screw-fixed with built-in small VIP air conditioners. Recommended for Command Panel versions 3, 5, 7, 9. Condenser assembly, top right**
- Other depths and designs on request.
- ** Aluminium, natural anodized

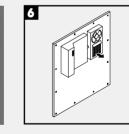


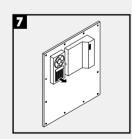
rigid or adjustable



connector













HMI 13 HMI 14

VIP 6000 Keyboard Housing Design

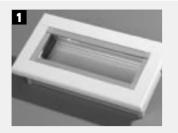
4.1 Keyboard Enclosure

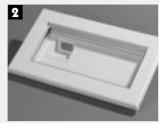
- 1 Installation depth: 4.13"/105 mm
- 2 Installation depth: 1.73"/44 mm
- 3 Keyboard lay-in tray, depth: 1.06"/27 mm
- 4 Keyboard lay-in tray, depth 1.06"/27 mm, with flexible cable tube connector For standard keyboards. Without trim. All keyboard housings are custom made per your component dimensions and

depending on your operator enclosure specifications.

4.2 Types Of Trim

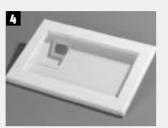
panel - for front panels ≤.

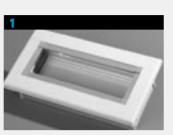




The colored numbers identify the version we've selected for our example.



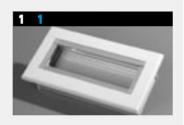












14"/3.5 mm thick 2 End trim

1 Cover trim

Strips*

covers gap between front panel and frame profile - for all front panel thicknesses.

covers installation screws of front

3 Spacer trim

For components that must be flush with frame profile. For front panels with a thickness of appr. 0.14"/3.5 mm.

* No selection is available for keyboard enclosure 3 and 4. Please indicate with an X in this case.

4.3 Trim Colors*

- 1 Teal (similar to RAL 5018)
- 2 Light blue (similar to RAL 5012)
- 3 Red (similar to RAL 3001)
- 4 Purple (similar to RAL 4006)
- 5 Dark grey (similar to RAL 7030)
- 6 Graphite grey (similar to RAL 7024

Enclosure corner protection pieces will also be supplied in the specified color.

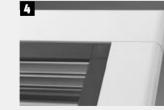
Other colors are available on special request.

*No selection is available for keyboard enclosure 3 and 4. Please indicate with an X in this case.



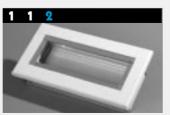












4.4 Frame Connector

- 1 Rigid, 120° angle
- 2 Adjustable from 75° to 210°, adjustable in 7.5° increments. Allows optimum ergonomic adjustment for each user.
- 3 Enclosure duct connector
- 4 Enclosure bracket connector
- 5 Frame hinge connector

4.5 Cable Duct*

Example

0 None

The colored numbers identify the version we've selected for our example.

1 Rigid, light grey (RAL 7035) aluminum - for use with rigid frame coupling between

operator enclosure and

flexible frame coupling

and keyboard housing.

* No selection is available for

kevboard enclosure 3. Please

indicate with an X in this case.

Installation depth:

or 1.06"/27 mm

keyboard housing. Installation depth: 4.13"/105 mm

plastic - for use with rigid and

2 Flexible, light grey (RAL 7035)

between operator enclosure

4.13" /105 mm, 1.73"/44 mm

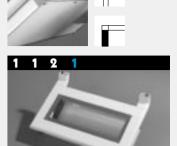


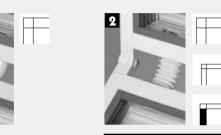


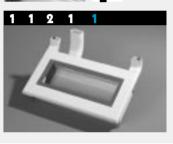












Part No.: 6392.009 **Specification Numbers** For Operator Enclosure 1121211

Part No.: 6351.009

Specification Numbers For Keyboard Housing

11211

You can easily specify your complete VIP 6000 operator interface system just as we have demonstrated in our example.

• Detailed dimensions for the components selected can be found on pages 69-74.

HMI 15 HMI 16

VIP 6000 Ordering Guide...

VIP 6000 Operator Housing

1. Select the frame

OPERATOR INTERRFACE

The frame type is determined from the Part No.

Wide frame	Narrow frame	Combination frame
0	2	1
Part No. C	92.0	9

2. Enter the panel dimensions

Please state the number of front plates/panels used, their height (H) x width (W), and/or the manufacturer/model.

	Panel H x W					
Тор	Supply panel	Yes	□No	Cutouts	Yes	□No
	Manufacturer, model	/				
	Panel H x W					
Center	Supply panel	Yes	□No	Cutouts	Yes	□No
	Manufacturer/ model					
	Panel H x W					
Bottom	Supply panel	Yes	□No	Cutouts	Yes	□No
Bottom	Manufacturer, model	/				•

4. Operator housing handles

Please select Part No. and location.

4.1 For operator housing CP 6392.009*
Horizontal handle (one handle) Part No. 6101.009
Top Bottom Both
Vertical handle (1 set) Part No. 6102.009
Default is left and right
Deladit is leit and right
4.2 For operator housing CP 6392.109/6392.209*
Corner handle (1 set) Part No. 6107.000
Top Bottom Both
Straight 7U (121/4") handle (1 set) Part No. 6107.100
Horizontal Vertical Both
Straight 19" handle (1 set) Part No. 6107.200
Horizontal Vertical Both
* Handle cannot be located on bottom of operator housing if keyboard is a

*Handle cannot be located on bottom of operator housing it keyboard is used.

Note: When using a VIP enclosure (Part No. CP 6392.009/6351.009) in conjunction with a CP-Vertical pendant arm system, you must order a CP 6392.009 horizontal handle. For VIP enclosures (Part No. CP 6392.109/.209 and CP 6531.109/.209) a specific CP-Vertical release handle must be ordered.

3. Determine the design of the operator housing

(see pages 69-70)

3.1 Installation depths

Installation depth 6.10"/155 mm	1
Installation depth 7.28"/185 mm	2
Installation depth 7.28"/185 mm, hinged	3
Installation depth 11.61"/295 mm	4
Installation depth 11.61"/295 mm, hinged	5
Installation depth 12.91"/328 mm	6
Installation depth 12.91"/328 mm hinged	7
Installation depth 17.24"/438 mm	8
Installation depth 17.24"/438 mm, hinged	9

3.2 Cross member/sealing bar

- 1	Without	Ш	0	
[1 cross mullion	Ш	1	
	1 sealing bar	П	2	
[2 cross mullions	Ш	3	
ſ	2 sealing bars	Ш	4	
[1 cross mullion and 1 sealing bar	Ш	5	
ſ	1 adaptor panel	Ш	6	
ſ	1 spacer and 1 trim panel (top)	Ш	7	
[1 spacer and 1 trim panel (bottom)		8	

3.3 Cooling fins

No fins	П	Н	١	1	
Fins at sides	П	Н		2	
Fins all round				3	

3.4 Types of trim

71						
Cover trim	П	Τ	Т		1	
End trim		ı		l	2	
Spacer trim					3	

3.5 Trim colors

Turquoise (similar to RAL 5018)	П	Τ	П		1	
Light blue (similar to RAL 5012)	Н		$ \ $	ı	2	
Bright red (similar to RAL 3001)	Н		$ \ $	ı	3	
Purple (similar to RAL 4006)	Н		$ \ $	ı	4	
Stone (similar to RAL 7030)	Н		$ \ $	ı	5	
Graphite grey (similar to RAL 7024)	Н		$ \ $	ı	6	

3.6 Support arm connection

Without	П		П		П	Т	0	
Connection at top		П	- 1	1	П	1	1	
Connection at bottom			- 1	1	Ш	1	2	
Connection top and bottom (including a cover plate)							3	

3.7 Connection to the keyboard housing

Without	H	ı	1	ΙI	1		ΙI	- 1	U
For frame connectors	Ш	Н	ı	Н		П		١	1
For enclosure duct connectors	H	Н	ı	Н		П		١	2
For enclosure bracket connectors	H	Н	ı	Н		П		١	3
For frame hinge connectors	П	Ιl		Ιl		П		١	4

3.8. Rear panel

Screw mount						Τ	Τ		П			I	1
Hinged		П		П		Т	ı		П		П		2
Hinged, with extra installation depth 1.77"/45 mm													3
Screw mount, with extra installation depth 9.65"/245 mm													4
With heavy-duty hinge		П					ı		Ш		П		5
Small air conditioner (SK 3201.100) with condenser at the top left													6
Small air conditioner (SK 3202.100) with condenser at the top right	•	1	7	1	,	\downarrow	,	•	1	7	\downarrow		7
Please enter vour	Г	Г		Г			Т		Г			Т	_

Please enter your design code numbers here

It's Easy By Fax...

VIP 6000 Keyboard Housing 1. Select the frame 3. Determine the design The frame type is determined by the Part No. of the keyboard housing (see pages 71-72) Combination Narrow 3.1 Installation depths nstallation depth 4.14"/105 mm nstallation depth 1.73"/44 mm Depth 1"/27 mm with cable grommet Depth 1"/27 mm for flexible cable duct 4 3.2 Type of trim Cover trim Spacer trim 0 2 3.3 Trim colors Turquoise (similar to RAL 5018) Light blue (similar to RAL 5012) Bright red (similar to RAL 3001) Purple (similar to BAI 4006) 4 6 3 5 1. 0 9 Graphite grey (similar to RAL 7024) 3.4 Keyboard housing connector Frame connector, rigid Frame connector, adjustable Housing duct connector Enclosure bracket connector Frame hinge connector 3.5 Cable ducts 2. Enter the panel dimensions Please state the number of front plates/panels used, their height (H) x width (W), and/or the manufacturer/model lexible Please enter the Part No. Supply panel Yes No Cutouts Yes No of your keyboard housing here. Manufacturer/ Keyboard Modifications as per attached. 4. Keyboard housing handles From: Please select Part No. and location 4.1 For keyboard housing CP 6351.009* Company Horizontal handle (one handle) Part No. 6101.009 Bottom Address Vertical handle (1 set) Part No. 6102.009 Default is left and right 4.2 For keyboard housing CP 6351.109/6351.209* Corner handle (1 set) Part No. 6107.000 City/State/ZIP Bottom Straight 7U (121/4") handle (1 set) Part No. 6107.100 Telephone/Fax Horizontal Straight 19" handle (1 set) Part No. 6107.200 Horizontal Contact Person Handle cannot be located on bottom of operator housing if keyboard is used. Position/Department Note: When using a VIP enclosure (Part No. CP 6392.009/6351.009) in conjunction with a CP-Vertical pendant arm system, you must order a CP 6392.009 horizontal handle. For VIP enclosures (Part No. CP 6392.109/.209 and CP 6531.109/.209) a specific CP-Vertical release handle must be ordered Date/Signature

Optipanel HMI Enclosures



Smart HMI Solutions

Based on the design and construction of the popular Command Panel operator enclosure line, Rittal's new Optipanel is an ideal housing for applications where smaller enclosures need a special design. The Rittal Optipanel features an elegant, flat design for the utmost in HMI housings. The Optipanel operator housing can be customized exactly to the dimensions of your operator panel as well as other components.

Note: See panel installation criteria on page HMI 12.

Configuration

- Standard version in 3.9" installation depth for commonly used front panels (sized at 19" x 7U)
- Customized models also available for additional installation depths
- Configure to your specific application with housing, mullion, rear wall and keyboard housing
- Retaining clamps provide flexibility to install variety of standard operator interface display panels
- NEMA 12/IP 65 housing with a wide range of accessory options

Technical Specifications

Material:

- Housing and front frame: extruded aluminum
- Frame corner pieces: die-cast zinc
- Corner protection pieces: plastic, self extinguishing
- Gasket trim strips: extruded flexible plastic

Finish/color:

- Housing frame: natural anodized
- Corner pieces: powder coated RAL 7035 light grey, textured
- · Plastic parts: RAL 7024 graphite grey

Protection Ratings									
NEMA Type	1	4		12	13				
Certificati	ons/	Аррі	ova	s					
Listings	UL*	CUL	□ CSA	U TÜV					
Technical Drawings									
Pages					HMI 75-76				

			Encl	osure						Mounti	ng Area		
Part No.	Part No. NEMA Exact outside dimensions							Usable mounting area Usable depth					
	rating		inches			mm		inc	hes	m	ım	inches	mm
		Н	W	D	Н	W	D	Н	W	Н	W	D	D
6380000	1, 12	13.94	20.75	4.33	354	527	110	12.22	19.00	310.3	482.6	3.94	100

	Accessories										
Part No.	Pendant arms and couplings	Aluminum front panel	Fixing hardware (panel)	Fixing hardware for O/I displays	Signal pillars						
6380000	See accessories section	6028000	6050000	6058500	See accessories section						

*Pending.

Optipanel Ordering Guide

Optipanel operator housing/keyboard housing CP 6382.009

The Optipanel configuration is built according to the following criteria:

1. Enter the panel/keyboard dimensions

	Panel H x W					
Тор	Supply panel	Yes	□No	Cutouts	Yes	□No
	Manufacturer, model	1				
	Panel H x W					
Center	Supply panel	Yes	□No	Cutouts	Yes	□No
	Manufacturer/ model					
	Panel H x W					
Bottom	Supply panel	Yes	□No	Cutouts	Yes	□No
Bottom	Manufacturer, model	1				
	I					
	Panel H x W			_		
	Supply panel	Yes	□No	Cutout	s Yes	□No
Keyboard	Manufacturer, model	1				

Simply copy, complete and fax to Rittal's Customer Service Team at (800) 477-4003.

From:

Company			
Address			
City/State/ZIP			
Telephone/Fax			
E-mail			
Name			

2. Optipanel design codes

Installation depth 2"/50 mm

After selecting a design number, use the "Design Code Number" box at bottom to configure your selection.

2.1 Installation depth of operator housing

Please enter your D	ACIAN	1	- 1		1	- 1	- 1
			_				
Center, installation depth 4	"/100 mm	↓		<u> </u>	↓	↓	2
Center, installation depth 2	"/50 mm]					1
Without		丌				\top	0
2.5 Keyboard housi	ng						
Hinged		11				2	
Screw-on		П	T			1	
2.4 Rear Wall							
	or CP 6525.600						
Rear connection	enclosure coupling CP 6525.100				7		
(cover plate inclued)	CP 6525.500 90* enclosure coupling CP 6526.000						
Connection top & bottom	or				6	1	
Bottom connection	CP 6525.000				5	1	
Top connection	enclosure coupling	11			4	1	
Top & Bottom connection (cover plate included)	or CP 6525.600				3		
Bottom connection	CP 3525.100				2	1	
Top connection	enclosure coupling	11			1	1	
Without		11			0		
2.0 Capport arm co	For	+	Т			Т.	
With (one mullion per plate 2.3 Support arm col	,	+		<u> </u>			
Without	(n = n = 1 = n = n =)	₩	+	0	-		
2.2 Cross mullion							
Installation depth 6"/150 m	m	3					
Installation depth 4"/100 m	m	2					

3. Operator Housing Handles

3.1 For keyboard housings CP 6351.109/6351.209*

Corner handle (1 set) Part No. 6107.000
Bottom
Straight 7U (121/4") handle (1 set) Part No. 6107.100
Horizontal
Straight 19" handle (1 set) Part No. 6107.200
Horizontal

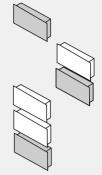
HMI 20

^{*} Handle cannot be located on bottom of operator housing if keyboard is used.

Optipanel Enclosure Design

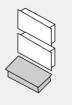
1.1 For Operator Housing CP 6382.009

Indicate the height (H), width (W) and depth (D) or the manufacturer/ type of the HMI device used. Please check for the installation criteria on the first page for further information.



1.2 For Keyboard Housing

Indicate the height (H), width (W) and depth (D) of keyboard/panels or the manufacturer/ type of the keyboard used. Check the installation criteria on the first page for further information.



For Technical Questions/Order Placement:

Please copy the form on page HMI 20 and enter your **panel dimensions** and the **code** for your special configuration.

Configuration Example

The following is an example of an Optipanel configuration with the respective **code number** highlighted.

2.1 Operator housing



Installation depth 2"/50 mm

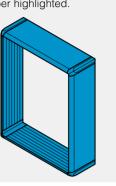


Installation depth 4"/100 mm



Installation depth 6"/150 mm

Configuration example: The following is an example of an Optipanel configuration with the respective code number highlighted.



2.2 Front design



Without mullion

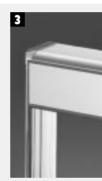


With mullion*



With sealing bar*





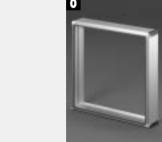
With spacer and installation panel on top**



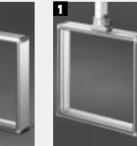
With spacer and installation panel at the bottom**

2 1

2.3. Support arm and floor stand connection



Without connection



Top connection



Bottom connection



and bottom*



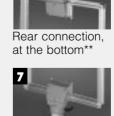
Top connection



Bottom connection

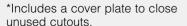


Connection top and bottom*



Rear connection, on top**

for CP 6525.1X0, CP 6525.6X0





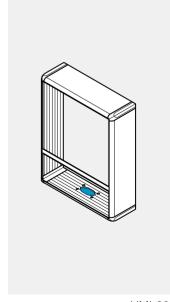
for enclosure coupling CP 6525.1X0, enclosure mount CP 6525.6X0

Valid only for installation depth (D) of 4 and 6"/100 and 150 mm



for enclosure coupling CP 6525.0X0, enclosure mount CP 6525.5X0, angle coupling CP 6525.0X0 Valid only for installation depth (D) of 6"/150 mm

**Coupling is supplied in RAL 7030.



2 1 2

HMI 21

^{**}Special request only. Extended lead times.

2.4. Rear wall

Aluminum, 0.12"/3 mm, natural anodized.

Note:

- For support arm connection on rear side it is only possible to hinge on the opposite side of the support arm connection.
- Cannot be used with installation depth of 2"/50 mm with keyboard housing.
- Standard double bit lock insert is exchangeable for lock inserts 41 mm, version C, plastic thumbturn handle and T-handles, version C.
- 4) In the rear wall hinged model, the maximum installation depth is reduced by 1"/25 mm around lock.



Rear wall screwed-on



Rear wall is hinged on the longest side. Viewed from the rear, right or bottom hinged 1) 2) 3) 4).

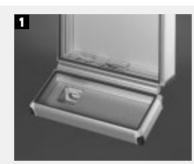
Configuration example: The following is an example of an Optipanel configuration with the respective code number highlighted.

2.5. Keyboard housing

Width is independent from operator housing. The swivel angle is continuously adjustable from 80° to 155°.



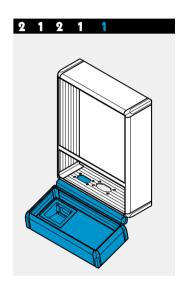
Without keyboard housing



With keyboard housing of installation depth 2"/50 mm.



With keyboard housing of installation depth 4"/100 mm.



Additional parts needed:

Installation kit for mounting front plates, operator panels and keyboards into the operator or keyboard housings.

Optipanel configuration example:

The drawings on the right margin highlight the build-up of the Optipanel as various options are added. The photo, to the right, shows the final configuration along with the configuration code below. The configuration of the code number is shown in the following table.

2.1	2	Operator housing, installation depth of 4"/100 mm
2.2	1	With mullion
2.3	2	Support arm on the bottom
2.4	1	Screwed-on rear wall
2.5	1	With keyboard housing, installation depth of 2"/50 mm

You can easily define the dimensions and configuration of an operator housing in just a few steps.

Please provide the following pieces of information for RFQ or order:

- 1. Part No.: CP 6382.009
- Dimensions and number of panels/front plates in the operator or keyboard housing, along with drawings for holes/cutouts.
- 3. Configuration code number

Operator/keyboard housing
Part No.: CP 6382.009
Configuration code number: 2 1 2 1 1



HMI 23 HMI 24

CP Pendant Arm Enclosures



Operator Interface Enclosures

Rittal's CP Series was developed to meet the requirements of today's sophisticated control technology including:

- Dense packaging of sensitive components
- Direct accessibility, anywhere on the plant floor
- A high degree of flexibility and ergonomic adaptation to the work place.

Numerous models of operator interface enclosures and two pendant systems combine with an extensive range of support arms, journals, hinges, and connection components to cover virtually any operator interface situation.

The high degree of flexibility and ergonomic design provide unlimited variety for today's diverse work environment.

Configuration

- NEMA 1, 12/IP 54 or 55
- Various configurations for specific applications
- Enclosures can be used with CP-L support arm system (CP-XL can be used w/adaptor CP 6528000)
- Integrated handle grip and front panel
- Designed for small to medium sized HMI applications
- Enclosures include integrated roof reinforcement
- Aluminum front panel can be removed for easy installation of holes and cutouts

Technical Specifications

• Handle grips: aluminum

NEMA Type

Protection Ratings 1 4 4X 12 13

Certifications/Approvals

UL CUL CSA TÜV

Technical Drawings

Finish:

Material:

• Enclosure, door: E-coat primed, painted, RAL 7035 light grey

• Front panel: 14 ga/2 mm aluminum

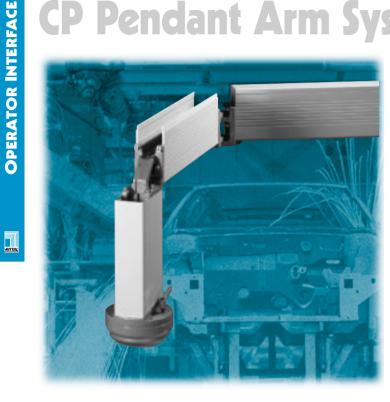
• Handle: painted, RAL 7030 stone grey or 5018 teal

• Enclosure, door: 16 ga/1.5 mm sheet steel

			Encl	osure						Mounti	ng Area		
Part No.	NEMA			Exact outsid	le dimensions	3			Usable mo	unting area		Usable	depth
	rating		inches			mm		inc	hes	m	nm	inches	mm
		Н	W	D	Н	W	D	Н	W	Н	W	D	D
Control Pane	el Enclosur	es/CP 6500 (CP-L) Series	i									
6540200	1, 12	7.9	11.8	6.1	200	300	155	5.91	9.84	150	250	5.91	150
6534000	1, 12	7.9	11.8	7.1	200	300	180	6.11	8.94	155	227	6.62	168
6535000	1, 12	11.8	11.8	7.1	300	300	180	10.05	8.94	255	227	6.62	168
6536000	1, 12	11.8	15.7	7.1	300	400	180	10.05	12.88	255	327	6.62	168
6537000	1, 12	15.7	11.8	7.1	400	300	180	13.99	8.94	355	227	6.62	168
6538000	1, 12	15.7	15.7	7.1	400	400	180	13.99	12.88	355	327	6.62	168
6531200	1, 12	11.81	14.96	9.21	300	380	234	9.84	12.99	250	330	8.07	205
6530200	1, 12	14.96	14.96	9.21	380	380	234	12.99	12.99	330	330	8.07	205
6533200	1, 12	14.96	23.62	9.21	380	600	234	12.99	21.65	330	550	8.07	205
6532200	1, 12	19.69	19.69	9.21	500	500	234	17.72	17.72	450	450	8.07	205

Accessories											
Part No.	Pendant arms and couplings	Pendant arms and couplings Signal pillars									
Control Panel Enclosures/CP 6500 (C	P-L) Series	I									
6540200	See accessories section	See accessories section	-								
6534000	See accessories section	See accessories section	-								
6535000	See accessories section	See accessories section	2482000								
6536000	See accessories section	See accessories section	2482000								
6537000	See accessories section	See accessories section	2482000								
6538000	See accessories section	See accessories section	2482000								
6531000	See accessories section	See accessories section	2482000								
6530000	See accessories section	See accessories section	2482000								
6533000	See accessories section	See accessories section	2482000								
6532000	See accessories section	See accessories section	2482000								

CP Pendant Arm Systems



Operator Interface And Support Arm Systems

Rittal's CP 6000 (CP-XL) Series pendant arm systems were developed to offer a high degree of flexibility and ergonomic adaptation to the work environment required by today's sophisticated control technology. A wide variety of enclosures, support arm systems, and accessories combine to satisfy virtually any operator interface need.

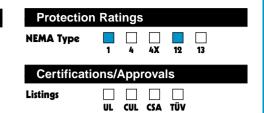
Configuration

- Self-tapping screws for easy and secure installation of the pendant arm system
- Support arm cover clips on to support arm for easy access to wiring
- Cable routing before/after installation is easy because one side of the support arm is
- The enclosed portion of the support arm provides additional shielding
- Torsion resistant extruded aluminum support arms have high load bearing capacity and attractive styling
- Extruded aluminum support arms can be easily cut to a required length
- Enclosures can swivel 350° with couplings
- 90° elbow coupling secures connection between support arm sections and also allows easy cable routing
- Enclosure coupling can be used for top or bottom installation
- Couplings come with either plastic covers or rubber boots which can be removed for easy access to wiring
- Any CP or VIP enclosure can be used

Technical Specifications

Finish/color:

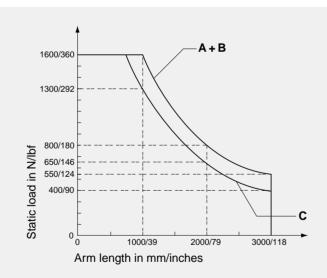
- Arm: RAL 7035 light grey
- Couplings: RAL 7030 stone grey



Unlimited Variety-CP 6000 (CP-XL)

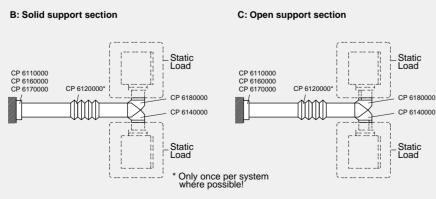
Rittal's flexible CP 6000 pendant arm system offers many advantages over conventional support arm systems. With its extensive range of support arms, journals, and couplings, it offers a sophisticated solution for virtually every application.

Today's operator interface control systems guarantee optimal information exchange and user-friendliness, but at the same time, place increasing demands on the interface between the operator and machine.



CP 6110000 CP 6160000 CP 6170000 Load

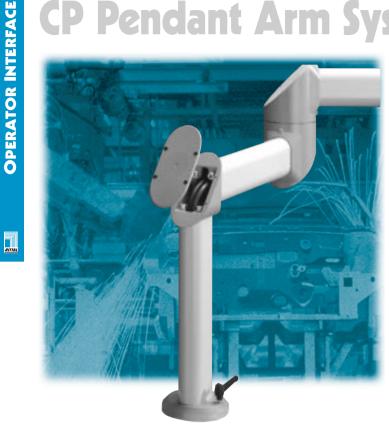
A: Open and solid support section



These Are A Few Examples From A Wide Range Of CP 6000 (CP-XL) Possibilities

HMI 27 HMI 28

CP Pendant Arm Systems



Operator Interface And Support Arm Systems

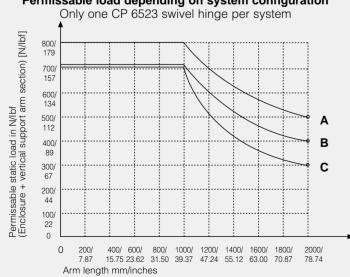
Rittal's CP-L and CP-S Series pendant arm systems were developed to offer a high degree of flexibility and ergonomic adaptation to the work environment required by today's sophisticated control technology. A wide variety of enclosures, support arm systems, and accessories combine to satisfy virtually any operator interface need.

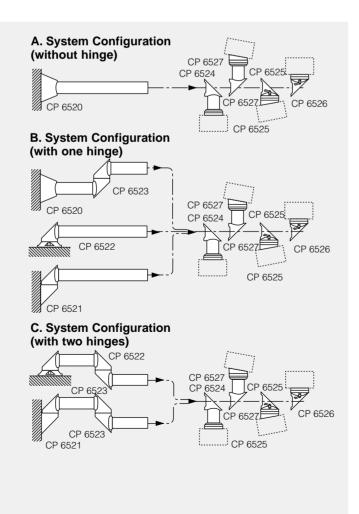
Extensive Versatility-CP 6500 (CP-L)

The support arm system CP-L is designed for small and medium-sized command panels. It offers a whole range of connection and hinged parts, and hence a large number of possible applications.

This ensures optimum operation at the interface between man and machine. In other words, the CP-L support arm system provides perfect back-up for optimum information exchange and user friendly handling of graphical interactive control systems.

Permissable load depending on system configuration





Configuration

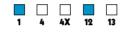
- Self-tapping screws for easy and secure installation of the pendant arm system
- Torsion resistant extruded aluminum support arms have high load bearing capacity and attractive styling
- Extruded aluminum support arms can be easily cut to a required length
- Enclosures can swivel 350° with couplings
- 90° elbow coupling secures connection between support arm sections and also allows easy cable routing
- Enclosure coupling can be used for top bottom installation
- · Couplings come with plastic covers which can be removed for easy access
- Any CP, VIP or Optipanel enclosure can be used

Technical Specifications

Finish/color:

- Arm: RAL 7035 light grey
- Couplings: RAL 7030 stone grey

Protection Ratings



Certifications/Approvals



CP-S Support Arm System

System Benefits

extension support arms.

enable an individual design adjustment to complement

the Optipanel (RAL 9006

and RAL 7024) or for CP

enclosures in sheet steel,

7030) or combined (RAL

7035/RAL 7024).

painted (RAL 7035 and RAL

2 color combinations

Mounting Examples

CP-S Support Arm System

NEW!

CP-S Support Arm System in combination with CP-L



 Compact support arm system • The movable components for small operator enclosures. have a maintenance-free Easy and fast mounting sliding bearing and the angle through set screws on the rotation can be limited.

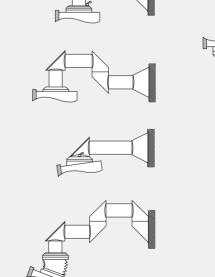
support arm components. Angle adaptor 90°. • The horizontal connection the connection to the to the larger CP-L support support arm system CP-L arm system allows longer

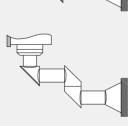
For connection to:

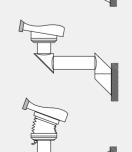
- Intermediate hinge
- Wall-mounted hinge
- Top-mounted hinge
- Wall/base mounting

The permitted load for vertical construction is 800 N (179.8 lbf), 80kg (176.4 lbs) total weight. The permitted load corresponds to the CP-L load diagram.

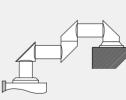
These Are A Few Examples From A Wide Range Of CP 6500 (CP-L) Possibilities

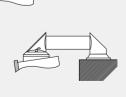


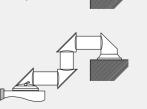


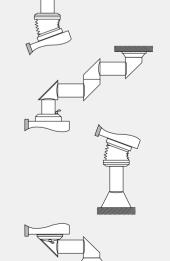














HMI 29 HMI 30

CP-Vertical Pendant Arm Systems



OPERATOR INTERFACE

Smart HMI Solutions

Rittal's new operator-driven CP-Vertical pendant arm systems allow any operator to comfortably use a plant floor operator interface device, regardless of the operator's height. To adjust height, the operator merely activates a release mechanism and the interface can be effortlessly repositioned at a new height or moved out of the way. The pendant arm uses a gas spring counterbalancing system that can be easily user calibrated to each system's load that assists in moving and locking the interface device in the desired vertical position.

What's more is, this pendant arm system can be easily incorporated with the new Optipanel enclosures that are specifically designed for flat panel displays. The CP-V System is also ideal for all of Rittal's Command Panel (CP) enclosures.

Pendant Arm System				
Part No.	Description	Max. load	Vertical travel T	
9967987	Post top/CP-V	100 lbs.	13"	
9967988	Post top/CP-VL	75 lbs.	23"	
9967989	Post top/CP-VXL	50 lbs.	30"	
9967993	Wallmount/CP-V	100 lbs.	13"	
9967994	Wallmount/CP-VL	75 lbs.	23"	
9967995	Wallmount/CP-VXL	50 lbs.	30"	
9967996	Machine top/CP-V	100 lbs.	13"	
9967997	Machine top/CP-VL	75 lbs.	23"	
9967998	Machine top/CP-VXL	50 lbs.	30"	
9967999	Universal mount/CP-V	100 lbs.	13"	
9968000	Universal mount/CP-VL	75 lbs.	23"	
9968001	Universal mount/CP-VXL	50 lbs.	30"	

Accessories			
Part No.	Description		
9968002	6" Horizontal extension		
9968003	12" Horizontal extension		
9968004	18" Horizontal extension		
9968005	24" Horizontal extension		
9968006	18" Jointed extension arm		
9968007	24" Jointed extension arm		
9968008	4" Vertical extension piece		
9968009	8" Vertical extension piece		
9968010	12" Vertical extension piece		
9968011	36" Floor post		
9968012	74" Floor post		
9968013	79" Floor post		
9968014	Release handle W < 15 ¹²		
9968015	Release handle W > 15 ¹²		
9968016	Release handle for VIP wide bezel ¹²		

¹ Must choose one release handle per arm.

Configuration

Sizes

5" H x 3" W x 26" L 5" H x 3" W x 31" L CP-VL CP-VXL 5" H x 3" W x 39" L

Vertical travel

CP-VL 23" CP-VXL 30"

- · Adjusts to viewing height of each operator with simple motion
- Counterbalance can be adjusted by user for loads up to 100 lbs (depending on arm)
- 13", 23", or 30" of vertical adjustment
- · Locks and unlocks with a convenient release mechanism
- · Swivels at both ends
- · Optional extensions and floor posts
- NEMA Type 4, 12 sealed cable passageway protects wiring
- Wallmount, machine top, post top or universal mounting options
- · Universal mount incorporates the ability to post, wall, or machine mount CP-Vertical arm
- · All arms can be easily reconfigured for inverted applications

Note: A release handle mechanism must be ordered for each arm

Technical Specifications

Material:

- Aluminum
- Finish/color: powder painted RAL 7035 light grey

Protection Ratings						
NEMA Type	1	4		12	13	
Certificati	ons/	Аррі	ova	s		
Listings	UL	CUL	☐ CSA	_ TÜV		
Technical Drawings						
Pages						

Each CP-Vertical Pendant Arm System Will Include The Following:

- CP-Vertical pendant arm that can be counterbalanced by the user based on load rating
- Mounting method (Post, Wallmount, Machine, Universal) will be attached to pendant arm
- A 4' release cable will be included
- · Conversion wrench and instructions
- Hardware to attach enclosure to CP-Vertical arm

Note: Hardware to attach the CP-Vertical pendant arm to mounting surface is not provided.

Below Is A Step-By-Step Guide To Selecting A **CP-Vertical Pendant Arm System:**

1) Determine Maximum Load:*

Maximum load = Weight of enclosure (lbs)

+ total weight of all components

mounted ON or INSIDE of

enclosure

Maximum load (lbs) =

* Load = Weight of enclosure + total weight of all components mounted inside

2) Determine Proper CP-Vertical Pendent Arm **Based On Load:**

Select a vertical travel based on your maximum load calculation from above.

Maximum Load	CP-V	CP-VL	CP-VXL
Range (+0%)	13" Vertical	23" Vertical	30" Vertical
	Travel	Travel	Travel
0 to 50 lbs	Yes	Yes	Yes
51 to 75 lbs	Yes	Yes	No
76 to 100 lbs	Yes	No	No

3) Determine Mounting Method:

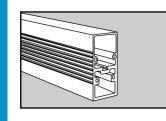
Based on the CP-Vertical Pendant Arm you selected (i.e. CP-V, CP-VL, CP-VXL) in step #2, select a mounting method that best fits your application.

Mounting	CP-V	CP-VL	CP-VXL
method	13" Vertical	23" Vertical	30" Vertical
	Travel	Travel	Travel
	Part No.	Part No.	Part No.
Post top	9967987	9967988	9967989
Wallmount	9967993	9967994	9967995
Machine top	9967996	9967997	9967998
Universal*	9967999	9968000	9968001

HMI 31 HMI 32

² W = overall enclosure width.

CP 6000 (CP-XL) Accessories



CP 6000 Support Arm

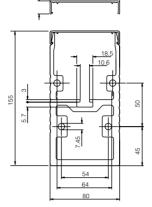
The basic component of a CP 6000 pendant arm system. Connection components are attached with self-tapping screws and make combinations of any desired length possible.

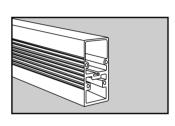
Configuration: bend- and torsion-resistant extruded aluminum complete with clip-on cover. Available in three different lengths.

Color: RAL 7035 light grey Weight: support arm: 6.0 lbs/ft/9.05

Cover: .3 lbs/ft/.45 kg/m.

CP 6000 Support Arm			
Length (inches/mm)	Packs of	Part No.	
19.7/500	1	6050000	
39.4/1000	1	6100000	
78.7/2000 1 6200000			



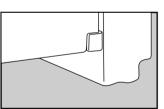


CP 6000 Support Arm, Solid

The solution for higher weight loads. Approximately 20% more loading capacity than the clip-on cover support arm version.

Color: RAL 7035 light grey Weight: 23 lbs/10.3 kg

Solid CP 6000 Support Arm			
Length (inches/mm)	Part No.		
19.7/500	1	6050500	
39.4/1000	1	6100500	
70.7/2000	1	6200500	

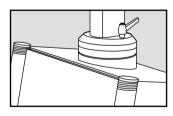


Adjustment Shim

Allow suppo

Material: sheet steel, zinc coated, yellow chromate.

,		Aujustilient Silini	
ws subsequent adjustment of CP		Packs of	Part No.
port arms.	Adjustment shim	10	6205000
erial: sheet steel zinc coated			

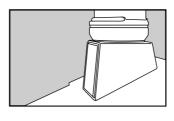


10° Tilting Adaptor

Tilts enclosure for increased user-friendliness; installed between housing and enclosure or 90° arm coupling.

Material: zinc diecast; comes with gaskets and installation hardware. Color: RAL 7030 stone grey.

10° Tilting Adaptor			
Weight	Packs of	Part No.	
2.6 lbs/1.2 kg	1	6023000	
000	00-		

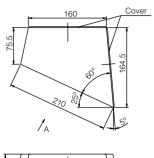


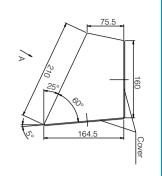
Tilting Adaptor 25°/60°

Installs between enclosure and CP 6130 enclosure coupling; tilts 25°

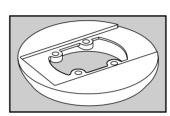
Material: zinc diecast; comes with gaskets and installation hardware. Color: RAL 7030 stone grey.

Tilting Adaptor 25°/60°		
Weight	Packs of	Part No.
8.4 lbs/3.8 kg	1	6150000





Part No.



Fixed Enclosure Coupling

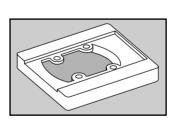
For fixed attachment of the enclosure in conjunction with 10° tilting adaptor (CP 6023000) and 25°/60° tilting adaptor (CP 6150000).

Configuration: Die-cast zinc; including gasket and installation hardware. Not suitable for use as a base point for a support arm system. Color: RAL 7030 stone grey.

2.4 lbs/1.1 kg	1	613060
180		
112		
64	22	

Fixed Enclosure Coupling

Packs of



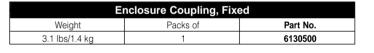
Fixed Enclosure Coupling

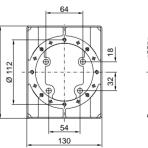
For rigid top or bottom mounting of enclosures to vertical support arms.

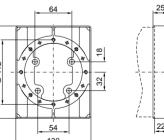
Configuration: zinc die-cast; includes gaskets and installation

Not suitable for use as base bracket for a support arm system.

Color: RAL 7030 stone grey.







HMI 33 HMI 34

Part No.

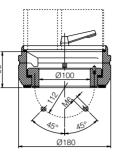
Enclosure Couplin

For top or bottom installa enclosures to vertical sur

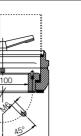
Material: zinc diecast: enclosure rotates infinitely through 350° and adjustable; maintenance-free bearing: includes gaskets and installation hardware. Not to be used as a support arm base bracket.

Color: RAL 7030 stone grey.

ng	Enclosure Coupling		
lation of	Weight	Packs of	Part No.
upport arms.	7.7 lbs/3.5 kg	1	6130000







90° Enclosure Coupling

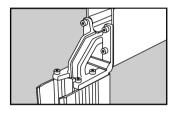
For top or bottom installation of enclosures to horizontal support arms without having to install an additional vertical support arm.

Material: spheroidal graphite iron and zinc diecast: rotates 180° and can be locked in place; maintenance-free bearing; plastic cover; gaskets and installation hardware. Not to be used as a support arm base bracket.

Color: RAL 7030 stone grey.

	90° Enclosure Couplin	g
Weight	Packs of	Part No.
12.1 lbs/5.5 kg	1	6040000

90° Arm Coupling



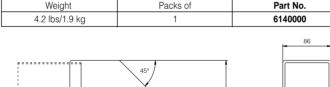
90° Arm Coupling

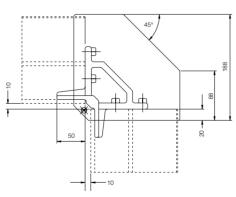
Connects vertical support arms to horizontal support arms.

Material: spheroidal graphite iron with protective plastic cover; gaskets and installation hardware.

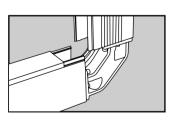
Color: RAL 7030 stone grey. US Patent No. 4,997,155 German Patent No. 38 05 422

European Patent No. 0 330 027 valid for FR, IT





7.0 lbs/3.2 kg



90° Arm Coupling (For Inverted Mounting)

Allows vertical support arm to be directed upwards from a lower, horizontal support arm at floor level which ensures trouble-free cable routing.

Material: spheroidal graphite iron with protective plastic cover; gaskets and installation hardware.

Color: RAL 7030 stone grey.

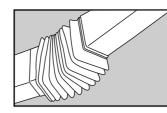
7.0 103/0.2 Ng	· ·	0100000
951	0 0 0 0 0 0 0 0 0 0	80

90° Arm Coupling

Packs of

Part No.

6180000

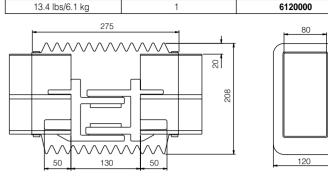


Intermediate Hinge

Connects horizontal suspension

Material: spheroidal graphite iron; rotates 180°, includes bellows with zip fastener for easy access to cable duct; gaskets, and installation hardware.

Color: RAL 7030 stone grey. US Patent No. 4.998.702 German Patent No. 38 05 424 European Patent No. 0 330 029 valid for FR, GB, IT



Intermediate Hinge

Packs of

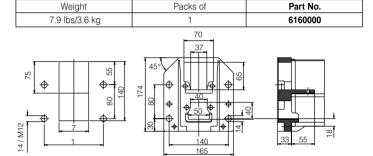
Weight

Wall/Base Bracket

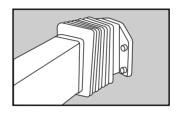
Allows rigid mounting of the pendant arm system to vertical or horizontal surfaces.

Material: spheroidal graphite iron, includes gaskets and installation hardware.

Color: RAL 7030 stone grey.



Wall/Base Bracket

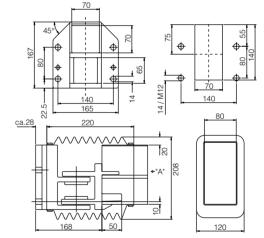


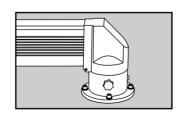
Vertical Hinge

For installation of a swiveling pendant arm system to vertical surfaces.

Material: spheroidal graphite iron; rotates 180°, includes bellows, gaskets, and installation hardware. Color: RAL 7030 stone grey.

Vertical Hinge	
Packs of	Part No.
1	6110000





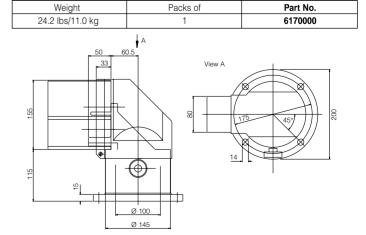
Horizontal Hinge

For installation of a swiveling pendant arm system to horizontal surfaces.

Material: steel and cast iron with plastic cover; maintenance free bearing, rotates 350°, with safety stop; includes gaskets and installation hardware.

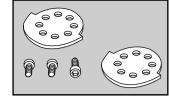
Note: Not to be used as an enclosure coupling.

Color: RAL 7030 stone grey.

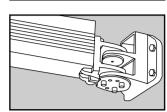


Horizontal Hinge

HMI 35







Rotational Limiter For CP-XL

Suitable for:

CP 6500 (CP-L) Accessories

arm system.

length possible.

• Wall-mounted hinge CP 6110.000 • Intermediate hinge CP 6120.000

Configuration: 2 steel-washer. perforated, zinc-coated, chromated, including 3 cheese head screws for

CP 6500 Support Arm

for self-tapping screws make

Color: RAL 7035 light grey

Weight: 3.16 lbs/ft/4.7 kg/m.

combinations up to any desired

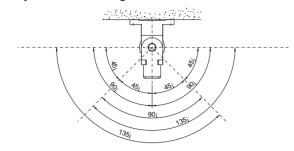
The basic component of the pendant

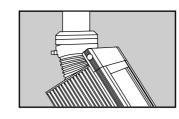
Material: Bend- and torsion-resistant

extruded aluminum. Integrated holes

PU Part No.	Rotational Lim	niter For CP-XL
	PU	Part No.
1 set 6110100	1 set	6110100

Adjustable swivel range:



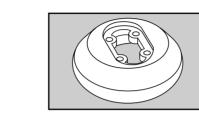


Tilt Adaptor +/-45° Adjustable

For flexible adjustment for optimum viewing angle of flat screen LCD displays. Can be mounted on pendant arm with a CP 6525 enclosure coupling or a CP 6526 90° enclosure coupling.

Weight	Packs of	Part No.
! lbs/1.0 kg	1	6529000
Ø 130 Ø 82 Ø 70 M6	^	

+/-45° Tilt Adaptor

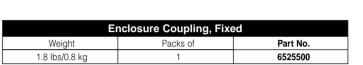


Enclosure Coupling, Fixed

For fixed bottom mounting of enclosure to vertical support arm.

Configuration: zinc die-cast: includes gaskets and installation hardware. Cannot be used as a support base bracket.

Color: RAL 7030 stone grev.



Enclosure Coupling

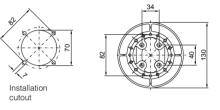
Packs of

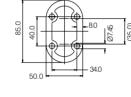
Part No.

6525000

Part No.

6528500



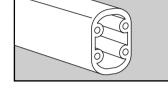


Length (inches/mm)

19.7/500

39.4/1000

78.7/2000



Support Arm Angle 90°, CP-L

The alternative for the assembling of compact support arm systems enables simplified mounting and improves the aesthetics, in particular in connection with the wall/ bottom mounting, small (CP 6520.5X0).

The support arm components are mounted on the angle through self-tapping screws, which means that the support profile can be cut to any required length.

Configuration: Torsionally stiff extruded aluminum section of high bending resistance.

Weight: 6.61 lbs/3 kg.

85.0 40.0 68 87.45 35.0)	
85.0 87.45 (35.0)	
50.0	

Support Arm A	ingle 90°, CP-L
Color RAL	Part No.
7035 (light grey)	6519000
9006 (white-aluminum)	6519010

CP 6500 Support Arm

Packs of

Part No.

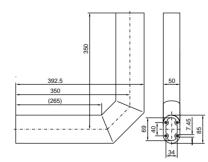
6511000

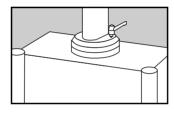
6513000

6515000

Part No.

Available November 2001.



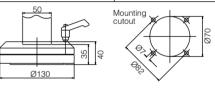


Enclosure Coupling, Rotating

For top or bottom installation of enclosure to vertical support arm. Configuration: maximum rotation

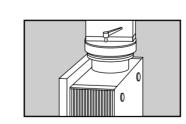
350°. Not to be used as a support

Color: RAL 7030 stone grey.



Weight 3.3 lbs/1.5 ka

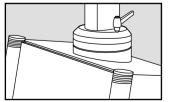
Connection Adaptor VIP		Connection Ada
6000 on Support Arm	Weight	Packs of
System CP-XL	1.5 lbs/0.7 kg	1
For connections between VIP 6000 Command Panels with support arm connection CP-L and support arm		





Color: RAL 7030 stone grey.

Ø 82 Ø 130 Ø 160	\$ 5 S



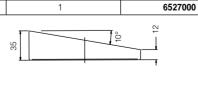
10° Tilting Adaptor

Tilts enclosure for increased operator friendliness; installed between housing and enclosure or 90° arm coupling.

Material: cast zinc; comes with gaskets and installation hardware. Color: RAL 7030 stone grey.

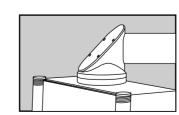
Weight

1.3 lbs/.6 kg



10° Tilting Adaptor

Packs of



90° Enclosure Coupling

For top or bottom installation of enclosure to vertical support arm.

Configuration: maximum rotation 350°. Not to be used as a base mounting bracket.

Color: RAL 7030 stone grey.

	90° Enclosure Coupling	
Weight	Packs of	Part No.
3.3 lbs/1.5 kg	1	6526000







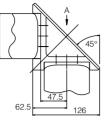
HMI 37

90° Arm Elbow

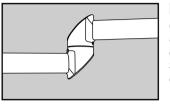
Connects horizontal and vertical support arms.

Color: RAL 7030 stone grey.

	90° Arm Elbow	
Weight	Packs of	Part No.
1.1 lbs/.5 kg	1	6524000



	View A
45°	5

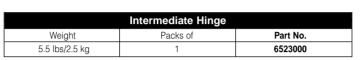


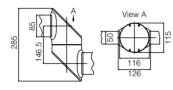
Intermediate Hinge

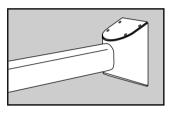
Connects horizontal suspension

Configuration: maximum rotation 350°.

Color: RAL 7030 stone grey.





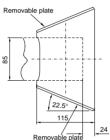


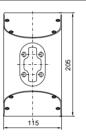
Wall/Base Mounting Bracket

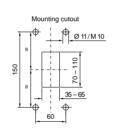
For rigid installation of a stationary suspension arm system to a vertical or horizontal mounting surface.

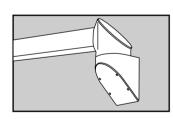
Color: RAL 7030 stone grey.

Wall/Base Mounting Bracket			
Weight	Packs of	Part No.	
3.5 lbs/1.6 kg	1	6520000	
3.3 lbs/1.0 kg	l I	0320000	









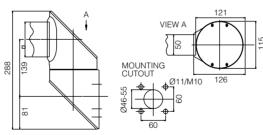
Vertical Hinge

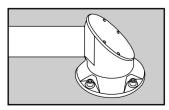
For installation of a swiveling support arm system to a vertical mounting

Configuration: maximum rotation 350°, can be locked in place.

Color: RAL 7030 stone grey.

Vertical Hinge				
Weight Packs of Part No.				
6.2 lbs/2.8 kg	1	6521000		





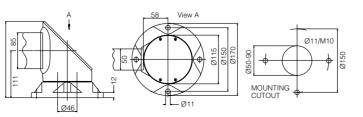
Horizontal Hinge

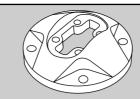
For installation of a swiveling support arm to a horizontal mounting surface. Ceiling installation possible.

Configuration: maximum rotation 350° not to be used as a coupling for enclosures.

Color: RAL 7030 stone grey.

Horizontal Hinge			
Weight	Packs of	Part No.	
5.5 lbs/2.5 kg	1	6522000	





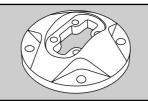
Wall/Floor Mount, Small

For fixed mounting of support arm systems on vertical and horizontal surfaces. Especially well suited for assembly of compact support arm systems with cable entry from the

Description: aluminum die-cast, including gasketing and self-threading screws for CP-L support arm installation. Color: RAL 7030 stone grey.

Note: standard screws may be used

for the assembly of walls and floors.

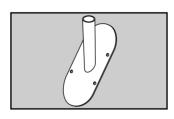


90° Angle Adaptor, (6000 to 6500) (CP-XL to CP-L)

- A coupling between
- horizontal support rail CP-XL and
- vertical support rail CP-L when the configuration is chosen for standard or aesthetic reasons.

Description: aluminum die-cast, including gaskets and self-threading screws for mounting of CP-L/CP-XL support arm.

Color: RAL 7030 stone grey.

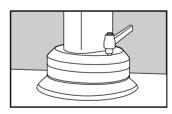


Mounting Component for Support Arm System

For attaching a signal pillar with connection component for conduit mounting onto support arm system CP-L. To fit angle piece CP 6524.000 and angle coupling CP 6526.000

Design: sheet steel

Color: RAL 7030 stone grey.



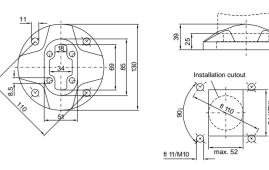
Connection Adaptor

Makes following, interchangeable connection options possible.

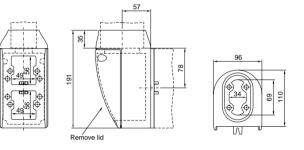
- Connect CP 6000 enclosure to CP 6500 support arm system.
- Connect CP 6500 enclosures to CP 6000 support arm system.

Material: cast aluminum; powder painted, RAL 7030 stone grey.

Wall/Floor Mount, Small			
Weight	Packs of	Part No.	
1.3 lbs/0.6 kg	1	6520500	

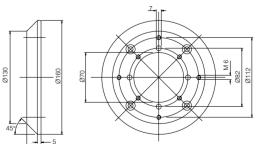


90° Angle Adaptor, CP-XL to CP-L			
Packs of	Part No.		
1	6528100		
	• •		



Mounting Component		
Mounting component	Part No.	
For support arm system CP-L	2375000	

Connection Adaptor Weight Part No. 1.1 lbs/.5 kg 6528000



HMI 40 HMI 39

Connection Housing CP-L

For connection on the rear side of a command panel onto support arm system CP-L via:

- Enclosure mounting 4.72 x 2.56"/ 120 x 65 mm (CP 6525.6X0)
- Enclosure coupling 4.72 x 2.56"/ 120 x 65 mm (CP 6525.1X0)
- Tilting adaptor 10° 4.72 x 2.56"/ 120 x 65 mm (CP 6527.1X0)

The removable cover enables simplified cable entry.

Configuration: Cast-aluminum. including seal and assembly parts for mounting on the enclosure as well as two cable ties.

Weight: 1.32 lbs/ 0.6 kg.



Color RAL

7030 (stone grey)

7024 (graphite grey)

Optipanel Support Plate

For mounting on the enclosure profile. This enables the rear wall or door to be removed. This ensures easy access in case of service.

Configuration: Cast-aluminum, including seal and installation hardware.

Mounting possibilities

- 1. For retrofitting* on Optipanel: In combination with the required support plate (see above) the connection console will be screwed directly on the Optipanel enclosure profile. This ensures solid connection and enables to remove the rear wall and rear door.
- * The supply includes the connection housing and support plate as well as the rear wall and rear door with respective cutout, if they are selected per design code number.
- 2. For other enclosures for example:
- Junction boxes
- Cast aluminum enclosures: The connection console can be mounted:
- a) Directly and flush with the enclosure edge
- b) With spacer plate (available on request) on the rear wall of the enclosure. A reinforcement of the rear wall has to be tested for each individual case.

Available October 2001	
75	30.5 38 73.5 89

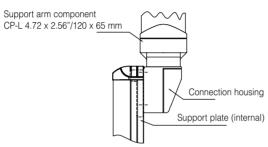
Optipanel Support Plate		
PU	Part No.	
1 set	6508100	
Available October 2001		

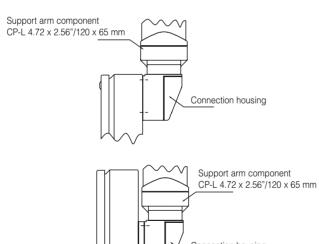
Connection Housing CP-L

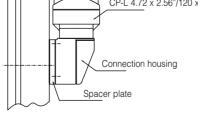
Part No.

6508000

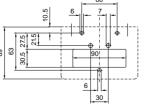
6508010

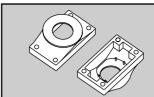




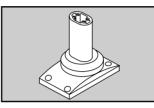


Mounting cutout









Connection Plate

- with reinforcement plate
- Enables simplified attachment of the Command Panel on the support arm or pedestal.
- Easily attached from outside.
- More space for cable entry and clamping angle.

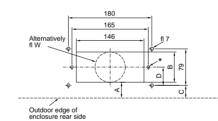
For mounting of:

- VIP 6000 1)
- Optipanel ²⁾
- Sheet steel Command Panel 3) on (see Table A)
- 1) From width of front plate 10.43"/ 265 mm. The CP-XL configuration not in connection with installation depth 6.10"/155 mm and 11.61"/295 mm.
- 2) From width of front plate 11.61"/ 295 mm and installation depth 5.91"/150 mm.
- 3) Attachment surface, minimum $W \times D = 11.81$ " $\times 5.32$ "/300 mm x 135 mm (e.g. operator door enclosure).

Note: The rectangle support arm cutout may be installed on request. Material: Connection plate; cast aluminum.

Configuration: Including seal/ installation hardware.

Mounting cutout CP-L/CP-XL



Ø 0.23"/6 mm only for sheet metal enclosures to fix the reinforcement plate.

Connection Plate					
	With support	Color RAL	We	ight	Part No.
	arm connection		lbs	kg	
	CP-XL	7030	1.76	0.8	6528300
	CP-L	7030	1.54	0.7	6528200
	CP-L	7024	1.54	0.7	6528210

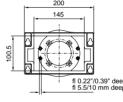
Table A				
Support arm components	CP-L	CP-XL		
Enclosure mounting	CP	CP		
	65255X0	6130600		
Enclosure mounting	CP	CP		
	65250X0	6130000		
Angle coupling	CP	CP		
	65260X0	6040000		
Tilt adaptor 10°	CP	-		
	65270X0			
Tilt adaptor +/- 45°	CP	-		
	65290X0			

Table B					
	Installation depth		Α	В	С
	inches	mm			
VIP 6000	6.10 to 7.28	155 to 185	32	81	30.5
VIP 6000	11.61 to 17.24	295 to 438	174.5	81	173
Optipanel	5.91	150	34	65.5	30.5
Sheet metal	-	-	*	86	*
enclosures					

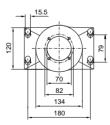
Available October 2001

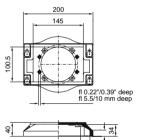
* Drillings/cutouts have to be located in the center of the reinforcement plate of the enclosure.

CP-L

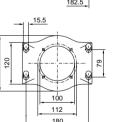






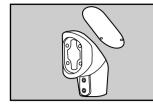


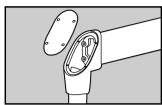
CP-XL



HMI 41 HMI 42

CP-S Accessories





Angle Adaptor 90°, CP-L To CP-S

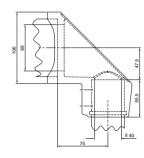
For the connection between

- Horizontal CP-L support profile and
- Vertical CP-S support profile. Angle adaptor can be on top or bottom, if system is
- Suspended or
- Supporting.

The removable cover enables simplified cable entry.

Configuration: Cast aluminum, including seal and self-tapping screws for CP-L or set screws for CP-S support profile mounting.

Weight: 1.5 lbs/ 0.7 kg.

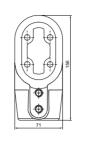


Available November 2001

Color RAL

7030 (stone gray)

7024 (graphite gray)



Part No.

6501080

6501090

Support Profile CP-S

For assembling a support arm system. The connection components are mounted on the support profile through set screws, which means that the support profile can be cut to any required length.

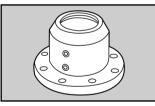
Configuration: Steel tube, outer diameter 1.9"/48.3 mm, wall thickness 0.15"/4 mm.

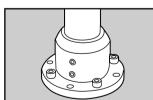
Weight: 9.7 lbs/ft (4.4 kg/m).

Support Profile CP-S			
Length		Color RAL	Part No.
inches	mm		
19.7	500	7035 (light grey)	6501000
19.7	500	9006 (white-aluminum)	6501010
39.4	1000	7035 (light grey)	6501020
39.4	1000	9006 (white-aluminum)	6501030

Available November 2001.







Wall/Base Mounting Bracket CP-S

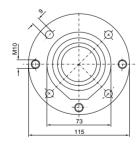
For rigid mounting of the support arm system on vertical or horizontal

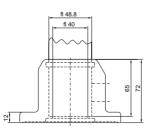
Configuration: Cast aluminum, including seal and two set screws for the support profile.

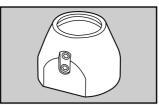
Weight: 1.32 lbs/0.6 kg

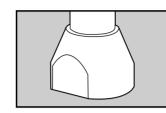
Wall/Base Mounting Bracket CP-S		
Color RAL Part No.		
7030 (stone grey) 6501100		
7024 (graphite grey) 6501110		

Available November 2001.









Enclosure/Base Bracket CP-S, Fixed

For rigid mounting:

- Of the enclosures onto the support arm.
- Of the support arms on a vertical or horizontal mounting surface (fasteners are internal).*

Configuration: Die-cast zinc, including seal and two set screws

for the support profile. * Maximum load capacity 400 N (89.9 lbf), 88.2 lbs/40kg total weight

Weight: 2.65 lbs/1.2 kg.

Enclosure Coupling CP-S, Rotating

For swivel mounting of the enclosure to the CP-S support arm system. Two mounting cutout options are

a) Circular pattern

b) Rectangular pattern

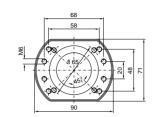
Configuration: Die-cast zinc, including seal and assembly parts.

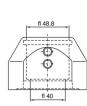
Rotation range approx. 350°, lockable. Not suitable for use as a base point for a support arm system.

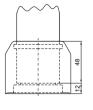
Weight: 4.63 lbs/2.1kg.

Enclosure/Base Bracket CP-S, Fixed	
Color RAL	Part No.
7030 (stone grey)	6501060
7024 (graphite grey)	6501070

Available November 2001.

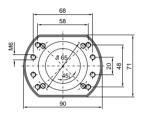


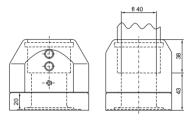




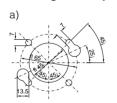
Enclosure Coupling CP-S, Rotating		
Color RAL Part No.		
7030 (stone grey)	6501040	
7024 (graphite grey)	6501050	

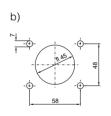
Available November 2001.





Mounting cutout options



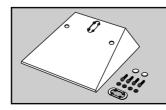


same as cutout a), however without keyhole.



Possible for Optipanel with installation depth 4"/100 mm. Please indicate under 2.3 (see Optipanel ordering form) additional to the construction code number 1 to 3 the letter S.

Pedestal Accessories



Pedestal Base, Small

With reinforcement bracket for the installation of support arm profile

- rear with one hole for a standard M20 cable conduit connection.
- top with two holes (grommets included) for bottom floor mounting

Small Ped	estal Base
PU	Part No.
1	6143200

Note: standard M8 screws are acceptable for bottom mounting. Material: sheet steel 3/22"/2.5 mm

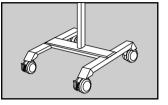
Color: RAL 7035 light grey.

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• mounted inside as reinforcement plate for all appropriately sized enclosures (also E-boxes and compact AE enclosures) in conjunction with:

- enclosure coupling CP 6525000

- enclosure mount CP 6525500
- tilted adaptor CP 6526000 to support arm CP-L.



Mobile Pedestal For CP 6000 And CP 6500

Pedestal/Platform Provides a fixed, mobile pedestal

Standard configuration includes: • knockouts for PG strain connector

• integrated cable collecting angle

· knockout for concealed mounting

of cable conduit adapters up to PG

With the following accessories:

double wheel casters 7495.000

mounting solution.

36 or M 50.

Offers operator friendliness and installation flexibility for CP operator enclosure applications. All CP and similar operator enclosures can be mounted on the special coupling plate of the CP 6136.000 mobile pedestal. Large casters facilitate easy movement, even on uneven floors: the front casters feature brakes.

Mobile Pedestal For CP 6000 And CP 6500	
Pedestal with mounting plate	Part No.
for CP 6500	6136500
for CP 6000	6136000

Enclosure Flange CP-L

The base allows for easy cable entry while cables can be routed through the support pillar.

With installation materials for

Color: RAL 7035 light grev.

Material: sheet steel

2 gaskets.

enclosure and support arm plus

Configuration: mobile base, with 4 casters, including two with

integral brakes; support pillar. Only for CP 6136.000: special coupling; installation hardware. Color: RAL 7030/7035 grey Casters: RAL 9005 black.

Part No.

6143210

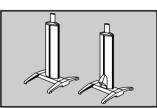
	Pedestal/Platform	
For support arm	Color RAL	Part No.
CP 6500	7035	6137535
CP 6000	7035	6137035

 wallmounting bracket KL 1580.000 or 1590.000 the pedestal can be customized for any environment. Material: sheet steel

Finish: powder painted: RAL 7030 stone grey or RAL 7035

light grey textured

Configuration: pedestal/floor plate with integrated reinforcement and installation cutout for CP 6000 or CP 6500 support arms; includes installation hardware for support arms.



Pedestal For Command Panel

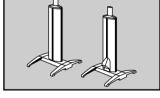
• leveling feet 4612.000

Enclosure may be mounted via • enclosure coupling CP 6525.500 (rigid).

• enclosure coupling CP 6525.000 (swivel).

Technical details:

Cast feet with holes for floor mounting.



Base Mount For Pedestal For CP 6141 Enclosure

For secure mounting at the installation site.

- bracket is mounted to the pedestal with four countersunk screws in the existing threaded holes (M 12).
- bracket is mounted to the floor via through-holes (Ø11 mm), depending on the construction of the floor, with commercially available screws and dowels

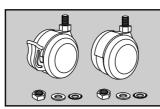
Pedestal For Command Panel			
He	ight	Cable conduit	Part No.
inches	mm	adaptor	
39.37	1000	without	6141000
39.37	1000	with	6141100

Support tubes:

· oval, twin-walled cover, easily opened from the outside. Cables may then be routed behind the cover for protection.

Base Mount For Pedestal	
Packs of	Part No.
1 set 6147000	

Configuration: 4 base mounting brackets, 4 countersunk screws, M 12



Twin Casters For CP 6141000/100 Enclosures

For mobile use, easy installation. For: • pedestals CP 6141.000 and CP 6141.100

• pedestal base plate CP 6137.030-CP 6137.535.

Load capacity per castor: 165 lbs/75 kg static load 2 twin casters with bra

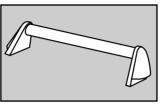
orake.			
t Rest For		Foot Rest	
5141000/100	For pedestal	Packs of	Part No.
of O connector pieces 1	CP 6141000	1 set	6145100

Overall height: 3.5"/90 mm

2 twin casters without brake

Color: black with grey wheels

Packs of



Foot **CP 61**

Packs of 2 connector pieces, 1 round tube.

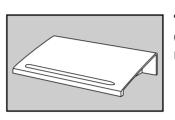
	FOOL RESI	
For pedestal	Packs of	Part No.
CP 6141000	1 set	6145100
CP 6141100		

Twin Casters

Part No.

6148000

OPERATOR INTERFACE

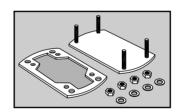


Trim Panel For CP 6141000/100

May be installed front and rear.

	Trim Panel	
For pedestal	Packs of	Part No.
CP 6141000	1	6144100
CP 6141100		

Optipanel Accessories

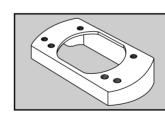


Cover Plate

To cover an unused support arm

Material: sheet steel, clear chromate. Configuration: cover plate with gasket, including installation material.

Cover Plate		
Support Arm Connection Part No.		
CP-L	6505100	



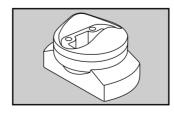
10° Tiliting Adaptor CP-L

For installation between

• enclosure coupling CP 6525.100 or • enclosure coupling CP 6525.600 and housing.

Configuration: zinc die-cast; includes gasketing and installation materials. Not designed as a base for a support arm system.

Color: RAL 7030 stone grey.



Enclosure Mount CP-L, Fixed

For fixed installation of enclosure to support arm CP-L. Can be mounted to the top or bottom of an enclosure.

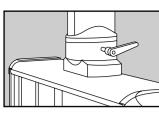
Configuration: zinc die-cast; includes gasketing and installation materials. Not designed as a base for a support arm system.

Color: RAL 7030 stone grev.

10° Tilting Adaptor		
Weight	Part No.	
1.10 lbs/0.5 kg	6527100	

Enclosure Mount		
Weight	Part No.	
2.20 lbc/1.0 kg	6525600	

HMI 45 HMI 46

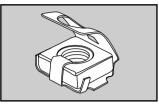


Enclosure Coupling CP-L, Rotating

Rotating mount of enclosure to CP-L. Top or bottom mount.

Configuration: zinc die-cast including gasketing and installation materials. Approximately 350° rotation. Not designed as a base for a support arm.

Color: RAL 7030 stone grey.



M5 Springnut

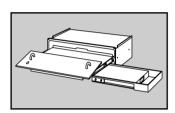
For internal installation of components into Optipanel with depth of 4 and 6"/100 and 150 mm. Easy installation, the spring secures against undesired movement.

Material: steel, galvanized, chromated.

Enclosure Coupling		
Weight	Part No.	
2.65 lbs/1.2 kg	6525100	

M5 Springnut		
Packs of	Part No.	
50	6108000	

General Accessories



Keyboard Drawer With Mouse Pad

19" front panel/3.5 U, for installation in:

 any sufficiently large space (door, side panel etc.).

The mouse pad is prepared to accept the inductive mouse pad NEMA 6/IP 67.

Technical specifications:

 space for keyboards up to H x $\dot{W} \times D = 1.7" \times 18.4" \times 6.8"$ (42 x460 x170 mm)

Mouse pad:

 pulls out at the sides including mouse storage compartment for standard pads and prepared for NEMA 6/IP 67 mouse pad.

Keyboard Drawer With Mouse Pad			
Height	Width	Depth	Part No.
3.5 U	482.6 mm	251 mm	6003000

Keyboard Drawer With Mouse Pad

19"/482.6 mm

Front panel:

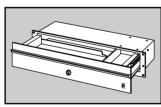
- folds out as a wrist support
- lockable, 3 mm double-bit insert may be exchanged for 27 mm inserts, version A, lock cylinder insert with lock no. 3524 E (SZ 2571.000).
- even with the drawer open, a high level of mechanical protection and shielding are retained.

Material:

Drawer housing: sheet steel. painted RAL 7035

Front panel: Aluminum, natural anodized

Configuration: keyboard drawer with mouse pad. including installation hardware and self-adhesive cable tie attachment



Keyboard Drawer 19"/2U

Can be mounted in all VIP 6000 enclosures and 19" systems or on any sufficie side wall, e lbs/2.5 kg) support arm systems because adequate room remains for cabling. even when the support arm is connected from below. It can also be locked with a 3524 E lock.

High mechanical protection and sheilding is maintained, even when the drawer is open.

Technical data:

• Total available space: 15.35" x 1.26" x 5.47"/ 390 x 32 x 139 mm

ently large surface (door,	
etc.). Its low weight (5.5	• Drawer has 2 25 1/60 mm high
) makes it ideal for use in	 Drawer has 2.35"/60 mm high
m systems because	space on right for a mouse of
room remains for cabling	trackball or for a 3 1/2" disk

drive When a mouse is used or when a 3 1/2" disk drive is installed, only enough space remains for an 11.2"/284 mm wide

Material:

keyboard.

Frame: sheet steel, zinc-plated, chromated

Drawer housing and drawer: aluminum

Front panel and handle: aluminum, natural anodized

Depth

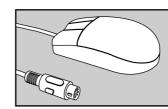
5.90"/150 mm

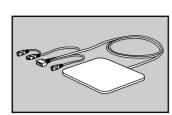
Configuration: Drawer housing with drawer, includes slides with stops for 'open' position, front panel with handles, gasket and installation hardware.

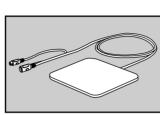
Part No.

6002000

Note: For installation in VIP 6000 operator enclosures we recommend cross members that are required for partitioning.







Mouse Pad Tray

Technical specifications: NEMA 6/IP 67 mouse Mouse connector: DIN 7-pole

NEMA 6/IP 67

Mouse/Mouse Pad

An ideal input device for all areas

standards of hygiene are crucial.

positions inductively, there is no

need for a trackball, and the housing

is completely sealed with a protective

film. This achieves a high protection

The mouse operates in conjunction

with the inductive mouse pad IP 67

Mouse pad: similar to RAL 7032 grey

Mouse: similar to RAL 7032 grey

and is available for connection to

either a COM or a PS/2 interface.

where heavy contamination is unavoidable, or where high

Because the mouse detects

category of IP 67/NEMA 6.

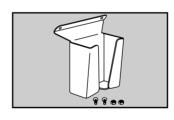
Mouse pad: plastic PBT

Mouse: plastic ABS

Material:

Is mounted on vertical handles of keyboard housings for accommodation of SM 6444.000 and SM 6444.500 IP 67 mouse pads. The slope of the mouse pad tray is infinitely adjustable. Installation requires drilling two installation holes in the handle grip brackets

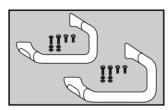
Material: sheet steel, chromated Configuration: mouse pad tray, installation hardware.



Mouse Holder

Fits Rittal mouse pad travs to ensure safe storage of a standard mouse or the Rittal SM 6445.000 IP 67 mouse.

Material: sheet steel, chromated Configuration: mouse holder, installation hardware.



Corner Handle

Supply includes: Packs of 4 handle holders. 2 handle tubes. assembly parts.



Mounting on enclosure corner

	NEMA 6/IP 67 Mouse/Mouse Pad			
Part No.	Description	HxWxD	HxWxD	Packs of
		inches	mm	
6444000	Inductive mouse pad IP 67	8 x 10 x .6	205 x 250 x 15	1
	COM interface			
6444500	Inductive mouse pad IP 67	8 x 10 x .6	205 x 250 x 15	1
	PS/2 interface			
6445000	Mouse IP 67	-	-	1
	for COM and PS/2 interface			

Mouse pad COM interface Mouse pad—PC connection:

9-pole D-SUB socket DIN 5-pole connecto Mouse pad PS/2 interface

Mouse pad -PC connection:

PS/2 connector Temperature range: 32°F to 131°F/0°C to 55°C

Power consumption: < 20 mA Pad size (H x W x D): 8" x 10" x .6"/205 x 250 x 15 mm Cable lengths: 2,000 mm Runs under DOS. Windows 3.1/3.11, Windows 95/98, Windows NT

IP 67/NEMA 4

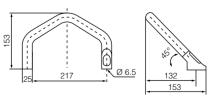
Ratings: IP 67/NEMA 4.

Mouse Pad Tray		
Description	Packs of	Part No.
Mouse pad tray	1	2381000

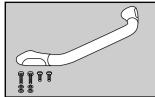
Mouse Holder		
Packs of	Part No.	
1	2382000	

Corner Handle		
Packs of	Part No.	
1 set	6107000	

Mounting on straight surfaces (90° rotation of handle holder)



HMI 47 HMI 48

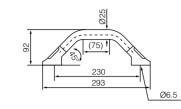




U Handle

Supply includes: packs of 2 handle holders, 1 handle tube, assembly parts.

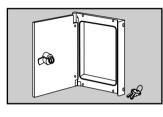
U Handle		
For front panel dimensions	Packs of	Part No.
7 U	1 set	6107100
19"/482.6 mm	1 set	6107200



CP 6107100 Mounting on straight surfaces (for front panel size 7U)

(240)[†]

CP 6107200 Mounting on straight surfaces for 19"/482.6 mm



100

Interface Box

The Rittal interface box provides secure accommodation for all standard computer ports, disk drives and sockets. The lockable metal cover provides a high mechanical load-bearing capacity, protects against unauthorized access and ensures an increased shielding effect for the installed equipment.

Material:

Frame: extruded aluminum section Mounting tray: sheet steel, 1.5 mm Cover: aluminum, 3.0 mm

Mounting Bracket/ Mounting Plate For universal interior installation. Allows for installation of additional

Rittal accessories and customer supplied components. Material: sheet steel, zinc plated, passivated

Supply includes:

4 mounting brackets or mounting plates 12 self-tapping screws M5 x 10 mm

Additional accessories: screws for attaching to the screw channels of the VIP 6000 command panel, Part No. 2504000 (M5 x 10 mm), packs of 500.

IIII	oo box
	Part No.
No socket	2482000

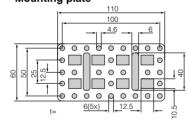
Surface finish:

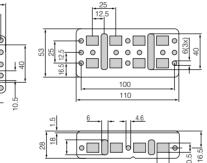
Frame and mounting tray: powder coated in RAL 7035 light grey Cover: natural anodized

Supply includes: frame with hinged cover, cam with lock insert no. 3524 E, mounting tray including seal and installation hardware.

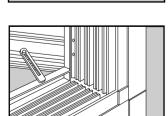
Mounting bracket/Mounting plate					
Part No.					
Mounting bracket	4597000				
Mounting plate	4532000				

Mounting plate





Mounting bracket

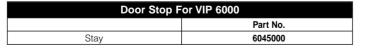


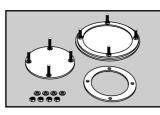
Door Stop For VIP 6000

To secure the open panel.

- For mounting at the bottom.
- The installation height is only reduced by 10 mm.
- Opening angle adjustable up to approx. 120°

Material: sheet steel, zinc plated, passivated.





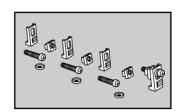
Cover Plate

For secure sealing of an unused support arm connection in the enclosure (CP-L, CP-XL).

Material: sheet steel. clear

chromate

Configuration: cover plate with gasket, including installation hardware.



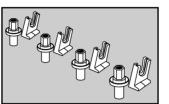
Mounting Kit

For installation of:

- aluminum front panels
- control panels
- keyboards

in keyboard trays and keyboard housings.

Packs of 30, including clip-in clamps, cage nuts, screws, washers.

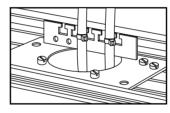


Mounting Kit For Threaded Bolts

for fastening

- aluminum front panels
- control panels
- keyboards

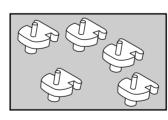
to VIP 6000 operator and keyboard housings with threaded bolts.



Cable Clamping Bracket For Operator Housing

To fit support arm cutout CP-L and CP-XL. Cable clamping optionally via:

- cable clamps
- cable ties for quick assembly SZ 2597.000
- commercially available cable ties. Bracket height = 25 mm with fitted 40 mm C rail.



Cable Tie Fastener

For all commercially available cable ties up to a width of 4.8 mm. The fastener is inserted into the screw channel and fixed by hammering down the split rivet.

Material: polyamide 6.6

	Cover Plate	
Support arm connection	Packs of	Part No.
CP 6000	1	6505000
CP 6500	1	6505500

Mounting Kit							
Thread	Part No.						
M4	6058000						
M5	6053000						

For installation of control panels with studs, only clip-in clamps are needed.

Mounting Kit						
Thread	Part No.					
M4	6058500					
M5	6053500					

Cable Clamping Bracket					
Part No.					
6052000					

Material: sheet steel, zinc plated, passivated.

Supply includes: 1 cable clamping bracket, 1 C rail 2 self-tapping

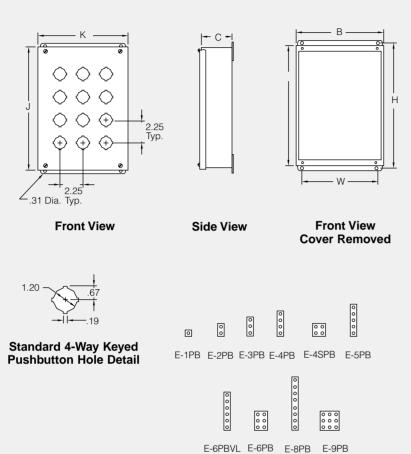
screws M5 x 10 mm.

Cable Tie	Fastener
Packs of	Part No.
100	6059000

HMI 49 HMI 50

Technical Specifications

Standard Pushbutton Boxes

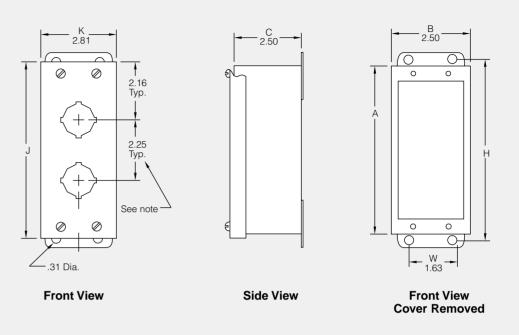


	Pushbutton Box										
Part No.	Out	side dimensions (inc	hes)	Mountin	g centers	Cove	Cover size				
	Н	W	D	Н	W	J	K				
E 1PB	3.50	3.25	2.75	4.00	2.38	3.81	3.56				
E 2PB	5.75	3.25	2.75	6.25	2.38	6.06	3.56				
E 3PB	8.00	3.25	2.75	8.50	2.38	8.31	3.56				
E 4PB	10.25	3.25	2.75	10.75	2.38	10.56	3.56				
E 4SPB	7.25	6.25	3.00	7.75	5.38	7.56	6.56				
E 5PB	12.50	3.25	2.75	13.00	2.38	12.81	3.56				
E 6PBVL	14.75	3.25	2.75	15.25	2.38	15.06	3.56				
E 6PB	9.50	6.25	3.00	10.00	5.38	9.81	6.56				
E 8PB	20.25	3.25	2.75	20.75	2.38	20.56	3.56				
E 9PB*	9.50	8.50	3.00	10.00	7.63	9.81	8.81				

Hole Arrangement Centered On Cover

Technical Specifications

Slim Pushbutton Boxes





Standard 4-Way Keyed Pushbutton Hole Detail **Hole Arrangement Centered On Cover**

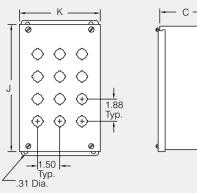
	Pushbutton Box										
Part No.	0	utside dimensions (inche	es)	Mounting	g centers	Cove	Cover size				
	Н	W	J	K							
E 1PBSL	4.00	2.50	2.50	4.50	1.63	4.31	2.81				
E 2PBSL	6.25	2.50	2.50	6.75	1.63	6.56	2.81				
E 3PBSL	8.50	2.50	2.50	9.00	1.63	8.81	2.81				
E 4PBSL	10.75	2.50	2.50	11.25	1.63	11.06	2.81				
E 6PBSL*	16.25	2.50	2.50	16.75	1.63	16.56	2.81				

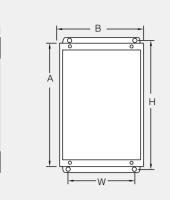
^{*} Add an additional 1" between pushbutton holes at center of enclosure.

^{*} Can be mounted to a Rittal Electromate column and base.

Miniature Pushbutton Boxes

OPERATOR INTERFACE







Standard 4-Way Keyed Pushbutton Hole Detail



Front View Cover Assembled

Side View

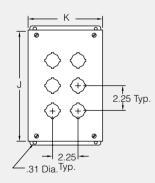
Front View Cover Removed

Hole Arrangement Centered On Cover

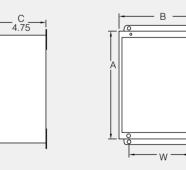
	Pushbutton Box									
Part No.	Height	Width	Depth	Mounting	centers	Cover size				
	A	В	С	Н	H W		K			
E 1PBGM	3.25	2.75	3.50	3.75	1.88	3.56	3.06			
E 2PBGM	5.13	2.75	3.50	5.63	1.88	5.44	3.06			
E 3PBGM	7.00	2.75	3.50	7.50	1.88	7.31	3.06			
E 4PBGM	8.88	2.75	3.50	9.38	1.88	9.19	3.06			
E 6PBGM*	8.50	5.00	4.25	9.00	4.13	8.81	5.31			

^{*} Can be mounted to a Rittal Electromate column and base.

Extra Deep Pushbutton Boxes











Front View Side View Front View **Cover Removed Cover Assembled**

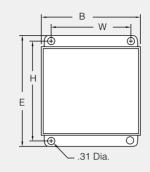
Hole Arrangement Centered On Cover

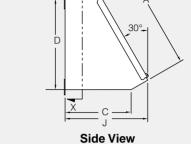
	Pushbutton Box									
Part No.	Height	Width	Depth	Mounting	g centers	Cover size				
	A	В	С	H W		J	K			
E 1PBXD	4.00	4.00	4.75	4.50	3.13	4.31	4.31			
E 2PBXD	6.00	4.00	4.75	6.50	3.13	6.31	4.31			
E 3PBXD	8.00	4.00	4.75	8.50	3.13	6.31	4.31			
E 4PBXD	10.00	4.00	4.75	10.50	3.13	10.31	4.31			
E 6PBXD*	9.50	6.25	4.75	10.00	5.38	9.81	6.56			

^{*} Can be mounted to Rittal Electromate column and base.

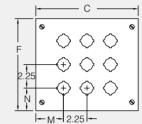
Technical Specifications

Sloping Front Pushbutton Boxes





Section X-X





Cover Detail



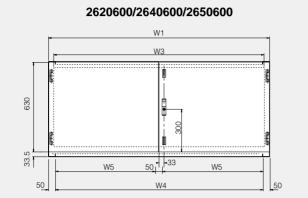
Standard 4-Way Keyed Pushbutton Hole Detail

Pushbutton Box												
Part No.	Part No. Outside dimensions (inches)		(inches)	Height of	Overall	Mounting		Cover size		Hole		
				base	height	cer	centers			loca	ation	
	Н	W	D	D	E	Н	W	F	G	М	N	J
E 1PBA	3.50	3.25	4.88	3.53	4.53	4.03	2.38	3.81	3.56	1.78	1.91	3.38
E 2PBA	3.50	5.50	4.88	3.53	4.53	4.03	4.63	3.81	5.81	1.78	1.91	3.38
E 3PBA	3.50	7.75	4.88	3.53	4.53	4.03	6.88	3.81	8.06	1.78	1.91	3.38
E 4PBA	3.50	10.00	4.88	3.53	4.53	4.03	9.13	3.81	10.31	1.78	1.91	3.38
E 4SPBA	7.25	6.25	6.75	6.78	7.78	7.28	5.38	7.56	6.56	2.16	2.66	5.25
E 6PBA	7.25	8.50	6.75	6.78	7.78	7.28	7.63	7.56	8.81	2.16	2.66	5.25
E 9PBA	9.50	8.50	7.88	8.75	9.75	9.25	7.63	9.81	8.81	2.16	2.66	6.38

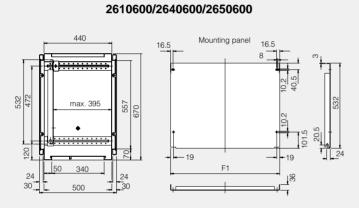
OPERATOR INTERFACE

AP Desk Consoles, Bottom Section

2600600/2610600 W1 797 797 W3 58 50 700 50



2600600/2620600 370 10-1-12.5 270 24 30 20-90-1-20

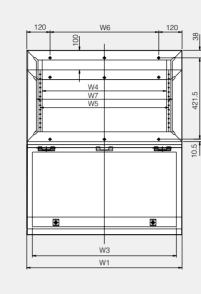


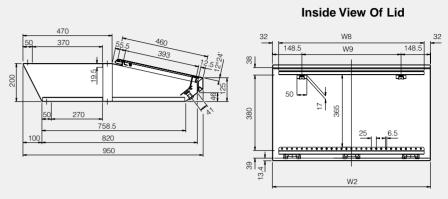
			Enclo	osure		
Height (H1)	inches	26.38	26.38	26.38	26.38	26.38
	mm	670	670	670	670	670
Width (W1)	inches	31.50	31.50	47.24	47.24	62.99
	mm	800	800	1200	1200	1600
Depth (D)	inches	15.75	19.69	15.75	19.69	19.69
	mm	400	500	400	500	500
Part No.		2600600	2610600	2620600	2640600	2650600
W3		724	724	1124	1124	1524
W4		-	-	1100	1100	1500
W5		-	-	525	525	725
F1		715	702	1115	1102	1502
No. doors		1	1	2	2	2
Weight	lbs	95.7	115.5	137.5	165.2	211.5
	kg	43.5	52.5	62.5	75.0	96.0

Technical Specifications

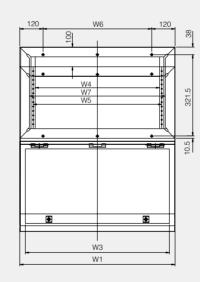
AP Desk Consoles, Center Section

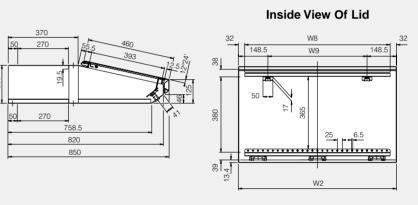
2613200/2643200/2653200





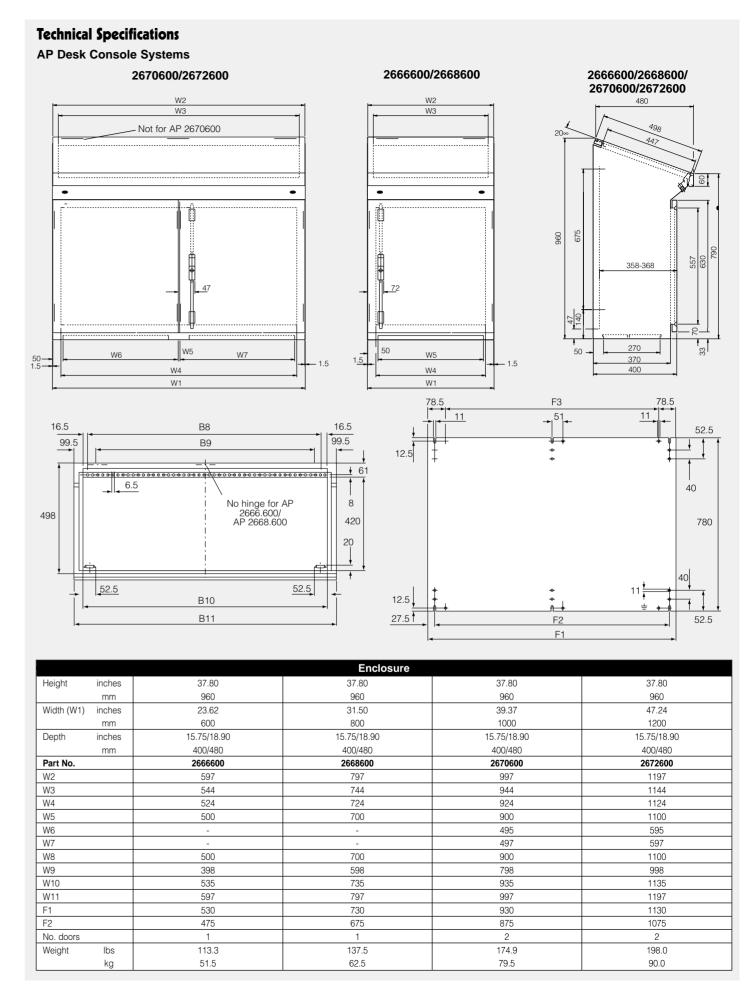
2611200/2641200





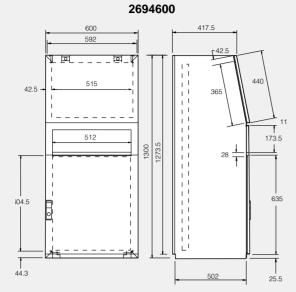
			Encl	osure		
Height	inches	7.87	7.87	7.87	7.87	7.87
	mm	200	200	200	200	200
Width (W1)	inches	31.50	31.50	47.24	47.24	62.99
	mm	800	800	1200	1200	1600
Depth	inches	15.75	19.69	15.75	19.69	19.69
	mm	400	500	400	500	500
Part No.		2611200	2613200	2641200	2643200	2653200
W2		797	797	1197	1197	1597
W3		742	742	1142	1142	1542
W4		640	640	1040	1040	1440
W5		660	660	1060	1060	1460
W6		560	560	960	960	1360
W7		700	700	1100	1100	1500
W8		733	733	1133	1133	1533
W9		500	500	900	900	2 x 650
Weight	lbs	56.1	67.3	78.1	93.7	116.2
	kg	25.5	30.6	35.5	42.6	52.8

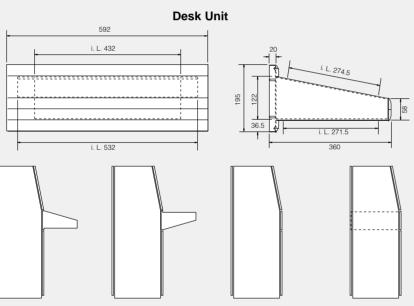
			Enclo	sure			
Height inches	16.93	16.93	16.93	16.93	24.80	24.80	24.80
mm	430	430	430	430	630	630	630
Width (W1) inches	31.50	31.50	47.24	47.24	31.50	47.24	62.99
mm	800	800	1200	1200	800	1200	1600
Depth inches	15.75	19.69	15.75	19.69	23.62	23.62	23.62
mm	400	500	400	500	600	600	600
Part No.	2612600	2614600	2642600	2644600	2647600	2648600	2649600
H1	422	422	422	422	622	622	622
H2	304	304	304	304	504	504	504
H3	-	-	-	-	623.5	623.5	623.5
H4	-	-	-	-	548	548	548
H5	-	-	-	-	525	525	525
H6	-	-	-	-	559	559	559
H7	-	-	-	-	607	607	607
H8	-	-	-	-	550	550	550
H9	-	-	-	-	500	500	500
W2	797	797	1197	1197	797	1197	1597
W3	742	742	1142	1142	742	1142	1542
W4	733	733	1133	1133	733	1133	1533
W5	-	-	-	-	732	1132	1532
W6	-	-	-	-	500	900	1300
T rotatable, 3HU	300	300	300	300	300	500	500
T rotatable, 6HU	195	195	195	195	195	395	395
T rotatable, max. height	110	110	110	110	310	310	310
T fixed, max. height	300	430	300	430	455	455	455
F1	715	727	1115	1127	727	1127	1527
G1	-	348	-	348	548	548	548
Weight lbs	49.5	67.3	88.0	105.6	105.1	141.68	190.9
kg	22.5	30.6	40.0	48.0	47.8	64.4	86.8



OPERATOR INTERFACE

AP Universal Console Systems





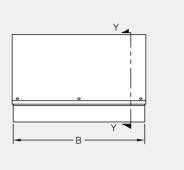
AP 2694 + 2696 AP 2694 + MC 4702 AP 2694 + MC 4757

	Console	
Part No.	Dimensions H x W x D	Version
2694600	51.18" x 23.62" x 19.69"	Top lid,
	1300 x 600 x 500 mm	shorted front door

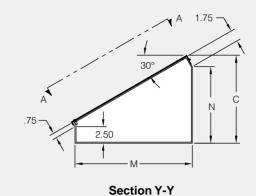
AP 2694 + 2696

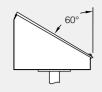
Technical Specifications

Consoles, Pedestals and Bases

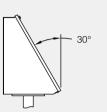


Front View

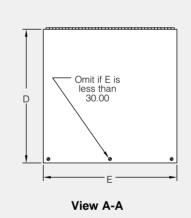


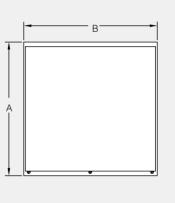


Section Y-Y



Console can be positioned at either 60° or 30° angle





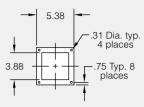
View A-A (with cover removed)

	Console										
Part No.	Ou	utside dimensions (inche	es)	Cov	er size						
	Н	W	D								
	А	В	С	D	E	M	N				
E 8C8	8.00	8.00	7.09	8.31	8.31	7.44	5.63				
E 8C12	8.00	12.00	7.09	8.31	12.31	7.44	5.63				
E 8C16	8.00	16.00	7.09	8.31	16.31	7.44	5.63				
E 12C12	12.00	12.00	9.09	12.31	12.31	10.91	7.63				
E 12C16	12.00	16.00	9.09	12.31	16.31	10.91	7.63				
E 12C20	12.00	20.00	9.09	12.31	24.31	10.91	7.63				
E 16C20	16.00	20.00	11.29	16.31	70.31	14.38	9.63				
E 16C24	16.00	24.00	11.09	16.31	24.31	14.38	9.63				

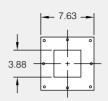
HMI 59 HMI 60

OPERATOR INTERFACE

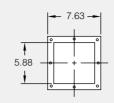
Consoles, Pedestals and Bases



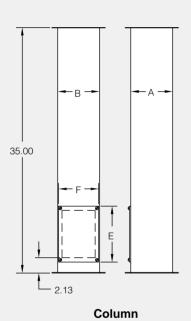
4x4 Top Column Flange

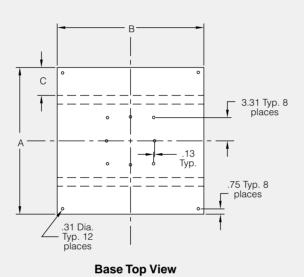


4x4 Bottom Column Flange See Base For Hole Locations



6x6 Bottom Column Flange See Base For Hole Locations







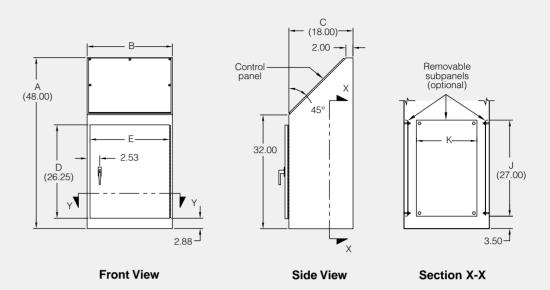
Base End View

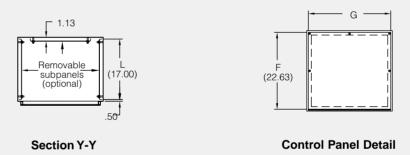
	Pedastal										
Part No.	Outside dimensions (inches) Cover plate										
	А	В	E	F							
E 44CCOL	4.00	4.00	7.00	3.75							
E 66CCOL	6.00	6.00	7.75	5.75							

	Base								
Part No.			Stiffener location						
	A	В	E						
E 18SBASE	18.00	18.00	3.00						
E 24SBASE	24.00	24.00	5.00						

Technical Specifications

Series 9 Operator Enclosures



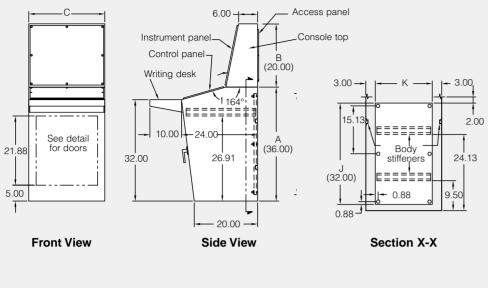


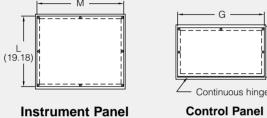
Console														
Part No.	No. H W D Door size Control		Rear	Rear mounting		Side	Side mounting		Caster kit					
				ра	nel	ра	nel	mounting	panel size		mounting	panel size		
	Α	В	С	D	E	F	G	panel	J	F		J	L	
E C924B	48.00	24.00	18.00	26.25	22.38	23.19	23.19	E 30P20	27.00	17.00	E 30P20	27.00	17.00	E C10C
E C936B	48.00	36.00	18.00	26.25	34.38	22.63	35.19	E 30P30	27.00	27.00	E 30P20	27.00	17.00	E C10C

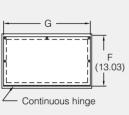
HMI 61 HMI 62

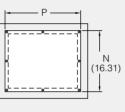
OPERATOR INTERFACE

Series 12 Operator Enclosures

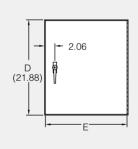


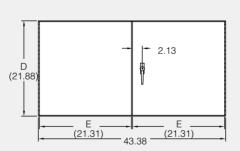






Access Panel





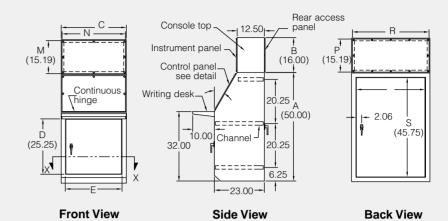
Single Door Detail A

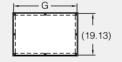
Double Door Detail B

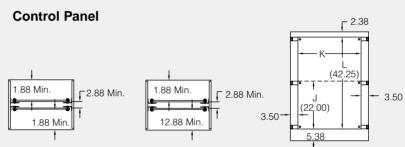
	Console													
Body	Body	Тор	Width	Door	or size Control panel		Rear mounting		Тор	Top Instrument panel		Access panel		
Catalog	height	height					panel size		Catalog					
No.										No.				
	А	В	С	D	E	F	G	J	K		L	М	N	Р
E C12B	36.00	20.00	36.00	21.88	31.94	13.03	35.19	32.00	30.00	E C12T	19.19	35.19	20.19	32.19

Technical Specifications

Series 14 Operator Enclosures







Section X-X (Half Panels Installed) Panel and panel mounting hardware shown are optional

Section X-X (Half Panels Installed) Panel and panel mounting hardware shown are optional

Section View Showing Half And Full Panels

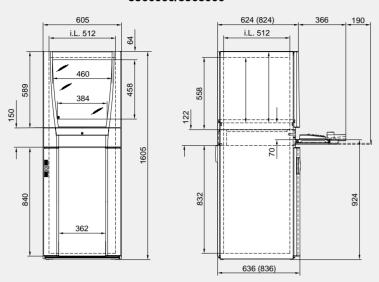
	Console										
Body	Тор	Body	Тор	Width	Fro	ont	Cor	ntrol	Half Mounting	Half m	ounting
Part No.	Part No.	height	height		door size panel size		Panel	pane	l size		
		А	В	С	D	Е	F	G	Part No.	J	K
E C14B	E C14T	50.00	16.00	24.00	25.25	19.59	19.13	23.19	E C14P2	22.00	17.00
E C1436B	E C1436T	50.00	16.00	36.00	25.25	31.59	19.13	35.19	E C1436P2	22.00	29.00

Console (Continued)											
Full	F	ull	Swingout	Swingout		Instri	ument Ac		cess	Full	
Mounting	mou	nting	Mounting	mounting		pa	inel	pa	inel	rear	
Panel	pane	el size	Panel	pane	panel size		ze	S	ze	door size	
Part No.	L	K	Part No.			М	Ν	Р	R	S	T
E C14P3	42.50	17.00	E C14P1	22.00	18.13	15.19	23.19	15.19	23.19	45.75	19.59
E C1436P3	42.50	29.00	E C1436P1	22.00	30.13	15.19	35.19	15.19	35.19	45.75	31.59

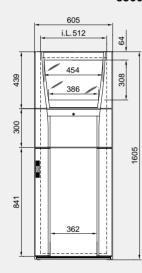
TS8 PC Enclosures

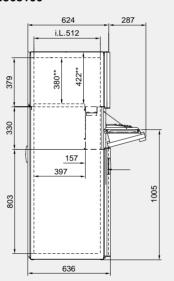
OPERATOR INTERFACE

8366000/8368000



8366100/8368100



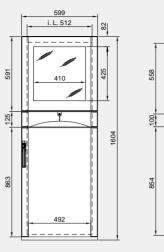


	Enclosure											
Part No.		Exact outside dimensions										
		inches mm										
	Н	W	D	Н	W	D						
8366000	63	24	25	1600	600	636						
8366100	63	24	25	1600	600	636						
8368000	63	24	33	1600	600	836						
8368100	63	24	33	1600	600	836						

Technical Specifications

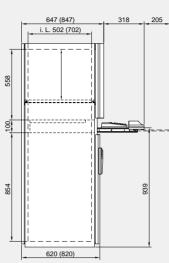
Standard PC Freestanding Enclosures

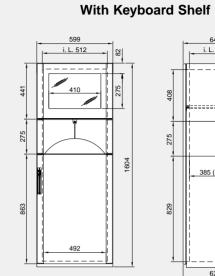
With Keyboard Drawer

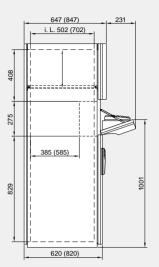


i.L. = available space

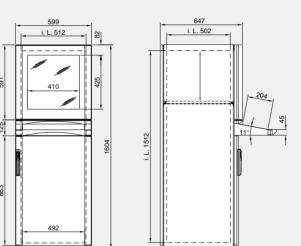
HU = available installation height (1HU = 1.75")

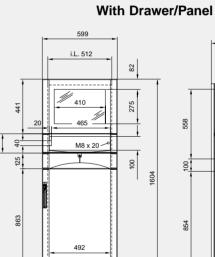


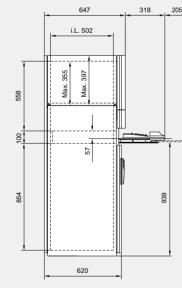




With Console







	Enclosure										
Front installation	Packs of	With keyboard	With keyboard	With console	With keyboard	With keyboard	With drawer/panel				
	drawer (including she		shelf		drawer (including	shelf					
keyboard bracket)											
Part No.	1	4603703*	4603920	4603704	4609703**	4609920	4603913				
H inches/mm	-	62.99"/1600 mm	62.99"/1600 mm	62.99"/1600 mm	62.99"/1600 mm	62.99"/1600 mm	62.99"/1600 mm				
W inches/mm	-	23.62"/600 mm	23.62"/600 mm	23.62"/600 mm	23.62"/600 mm	23.62"/600 mm	23.62"/600 mm				
D inches/mm	-	25.59"/650 mm	25.59"/650 mm	35.83"/910 mm	33.46"/850 mm	33.46"/850 mm	25.59"/650 mm				

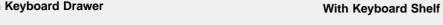
^{*} Information for PC ValuePack Part Nos. 9968185 and 9968187 as well.

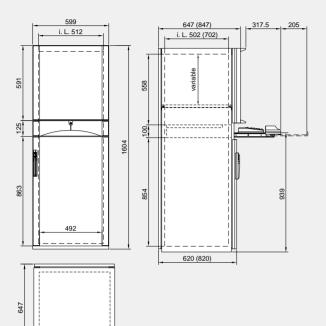
^{**} Information for PC ValuePack Part Nos. 9968186 and 9968188 as well.

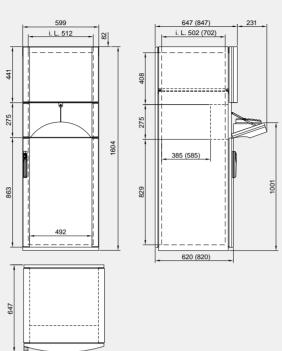
OPERATOR INTERFACE

Standing PC Freestanding Enclosures

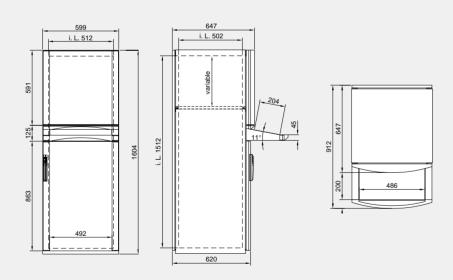
With Keyboard Drawer







With Console

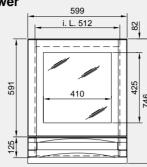


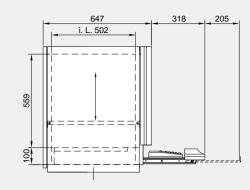
Enclosure									
Front installation	With keyboard drawer	With keyboard shelf	With console						
Part No.	4603603	4603820	4603604						
H (inches/mm)	63.0/1600	63.0/1600	63.0/1600						
W (inches/mm)	23.6/600	23.6/600	23.6/600						
D (inches/mm)	25.6/650	25.6/650	25.6/35.8 (650/910)						

Technical Specifications

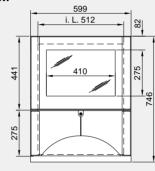
PC Desktop/Pedestal Enclosures

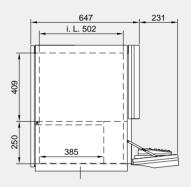
With Keyboard Drawer



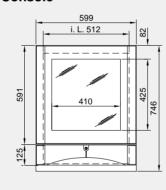


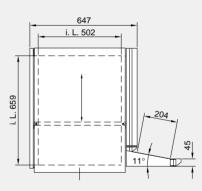
With Keyboard Shelf

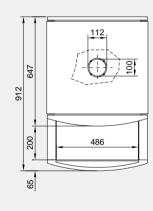




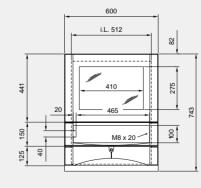
With Console

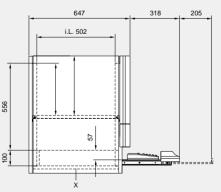






With Drawer/Panel



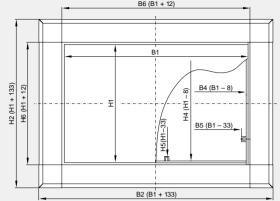


Enclosure											
Front installation	Packs of	With keyboard	With keyboard	With console	With drawer/panel						
	drawe		shelf								
Part No.	1	4617703	4617920	4617704	4617913						
H (inches/mm)	-	29.53"/750 mm	29.53"/750 mm	29.53"/750 mm	29.53"/750 mm						
W (inches/mm)	-	23.62"/600 mm	23.62"/600 mm	23.62"/600 mm	23.62"/600 mm						
D (inches/mm)	-	25.59"/650 mm	25.59"/650 mm	25.59"/650 mm	25.59"/650 mm						

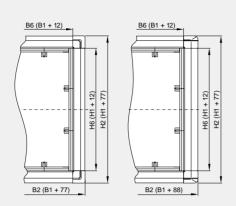
Technical Specifications

VIP Command Panel

Front frame, wide



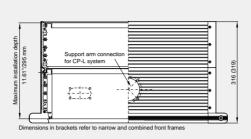
Narrow Combined



4 Installation depth 11.61"/295 mm, screw-on

Technical Specifications

VIP Command Panel

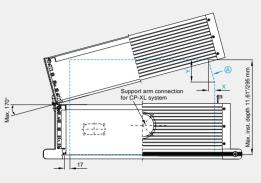


6 Installation depth 12.91"/328 mm, screw-on

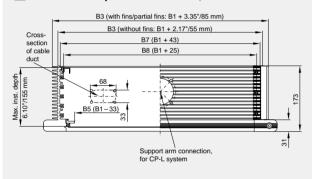
Installation depth 17.24"/438 mm, screw-on

Support arm confor CP-XL system

5 Installation depth 11.61"/295 mm, hinged



1 Installation depth 6.10"/155 mm, screw-on



Support arm connections

CP-L (CP 6500)

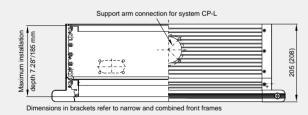


CP-XL (CP 6000)

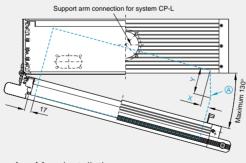




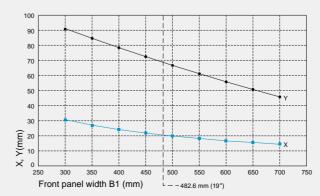
2 Installation depth 7.28"/185 mm, screw-on



Installation depth 7.28"/185 mm, hinged

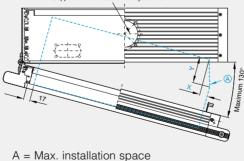


Calculating the swivel mounting space (versions 3 and 5)



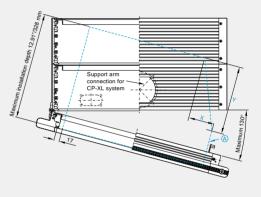
- H1 = Height of front panel
- H2 = Overall height
- H3 = Enclosure height (with fins: H1 + 85;
- without fins: H1 + 55)
- the enclosure sections
- the retaining claws H6 = Clearance height between
- H7 = Height of rear panel
- (H1 + 43)H8 = Clearance frame, height

- the enclosure sections
- the retaining claws of the assembly parts
- B6 = Clearance width between the front frames
- B7 = Width of rear panel B8 = Clearance frame, width

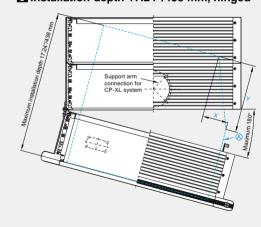


for hinged housings

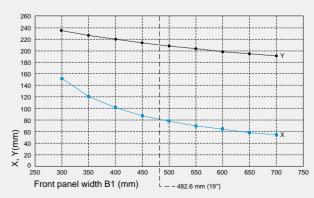
Installation depth 12.91"/328 mm, hinged



Installation depth 17.24"/438 mm, hinged



Calculating the swivel mounting space (versions 7 and 9)



Height dimensions:

- H4 = Clearance height between
- H5 = Clearance height between
- the front frames
- (H1 + 25)

Width dimensions:

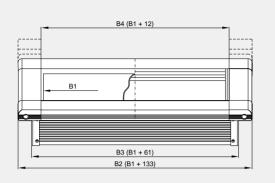
- B1 = Width of front panel
- B2 = Overal width
- B3 = Housing width
- B4 = Clearance width between
- B5 = Clearance width between

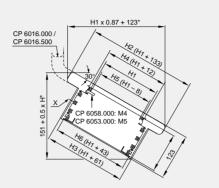
HMI 69

VIP Keyboard Housing

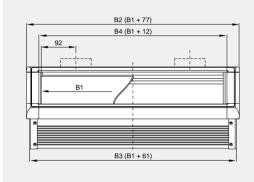
1 Installation depth 105 mm

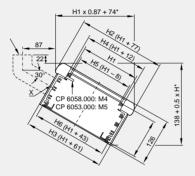
Front frame, wide



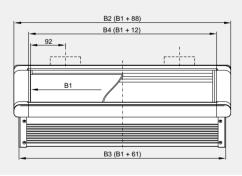


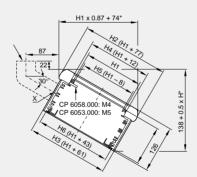
Narrow





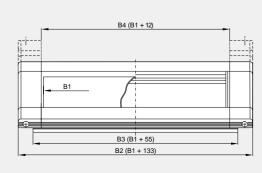
Combined

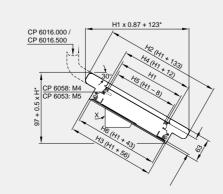




2 Installation depth 44 mm

Front frame, wide

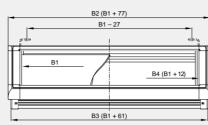


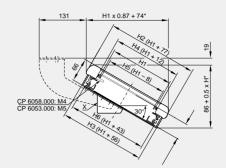


Technical Specifications

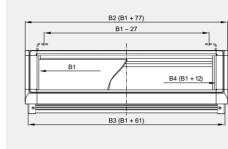
VIP Keyboard Housing

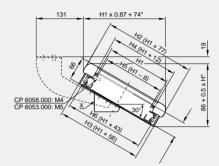
Narrow





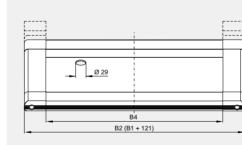
Combined

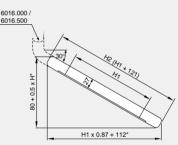




3 Depth 27 mm

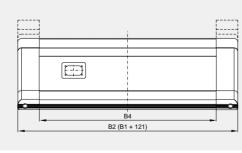
Wide front frame, with cable entry

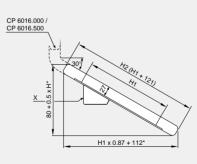




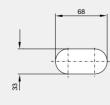
4 Depth 27 mm

Wide front frame, for cable tube, flexible





X = Cross-section of cable tube connection



Height dimensions: H1 = Height of front panel

H2 = Overall height

H3 = Enclosure height

the front frames

H5 = Clearance height between the enclosure sections

H6 = Height of rear panel

Width dimensions:

B1 = Width of front panel

B2 = Overal width

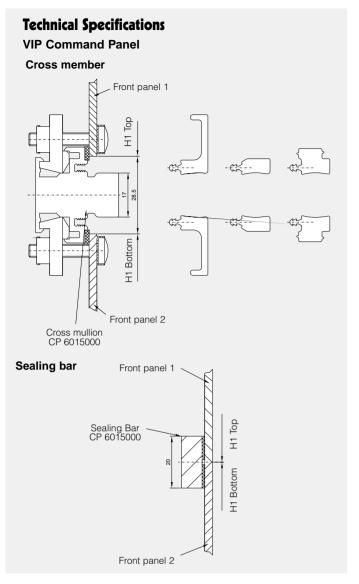
B3 = Housing width

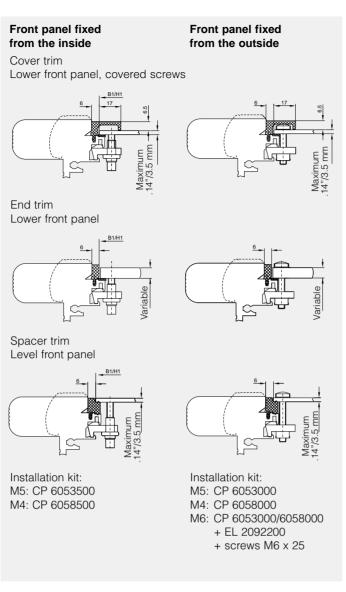
H4 = Clearance height between B4 = Clearance width between

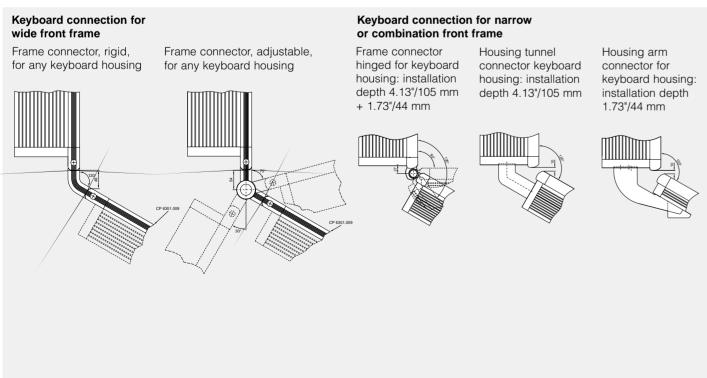
the front frames

* applies for angles of 30° to the horizontal

OPERATOR INTERFACE







Technical Specifications

VIP Command Panel

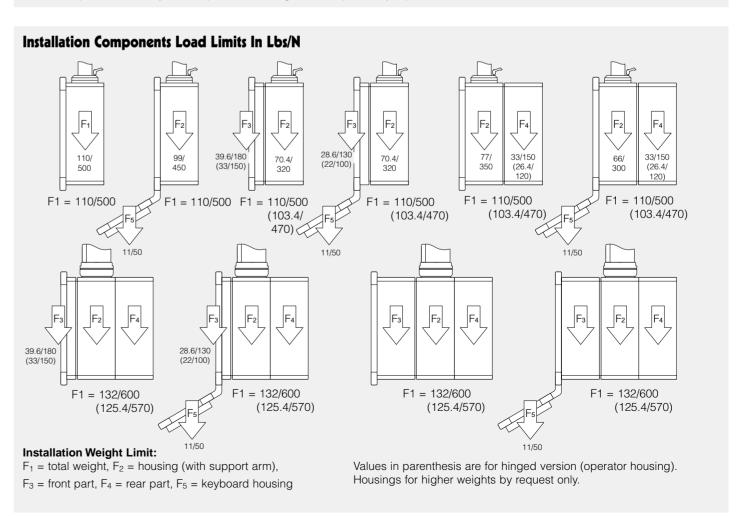
Minimum front panel width (B1)

dependant on

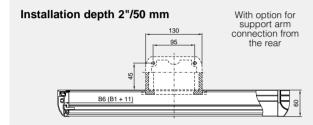
- Installation depth of operator housing
- Connection of operator/keyboard housing
- Location of the pendant arm connection

Dimensions in	inahaa/mm		Installation	depth of operator housi	ng (see 3.1)	
Difficitsions in	IIICHES/IIIII	6.10/155	7.28/185	11.61/295	12.91/328	17.24/438
Connection to the keyboard housing (see 3.7)	Position of the carrying arm connector (see 3.6)	1	3		G	9
	0 to 3		N	Minimum front panel widt	h	
0 none	top or bottom	169	265	169	265	
1 Frame connector or	1 top	169	265	169	265	
4 Frame hinged connector	2 and 3 bottom	339*	445*	339*	445*	
2 Housing	1 top	189	265	189	265	265
cable connector	2 and 3 bottom	339	445	339	445	
3 Housing	1 top	169	265	169	265	
arm connector	2 and 3 bottom	397*	445*	397*	445*	

*Lesser front panel widths for asymmetrical pendant arm configurations are possible by request.

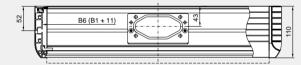


Technical Specifications With option for Max. Max. installation **Optipanel Operator Housing** support arm installation connection from depth 4"/100 mm the rear 6"/150 mm پهرېل د لمه .6"/4¹ mm depth 2"/50 mm B3 (B1 - 8) With option for B2 (B1 + 44)



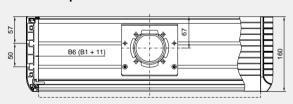
Installation depth 4"/100 mm

OPERATOR INTERFACE



Channel for installation of M5 spring nut

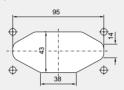
Installation depth 6"/150 mm



Channel for installation of M5 spring nut

Support arm cutouts

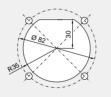
CP-L[□] for installation depths 4"/100 mm or 6"/150 mm



For mounting of:

- CP 6525.1x0
- CP 6525.6x0

CP-LO for installation depth 6"/150 mm



For mounting of: • CP 6525.0x0

- CP 6525.5x0
- CP 6526.0x0

Height dimensions:

H1=Height of front panel

H2=Total height

H3=Clearance between enclosure profiles

H4=Clearance between the retaining clamps of installation kit

H5=Height of rear wall

H6=Clearance for mounting (trim-to-trim), height

Width dimensions:

W1=Width of front panel

W2=Total width

W3=Clearance between enclosure profiles

W4=Clearance between the retaining clamps

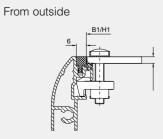
of installation kit

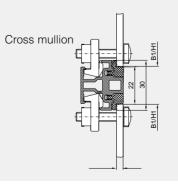
W5=Width of rear wall (W1 + 36 mm)

W6=Clearance for mounting (trim-to-trim), width

Front panel, screwed-on

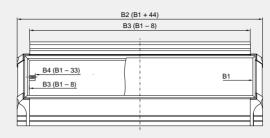
From inside

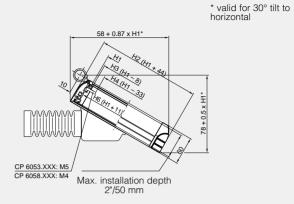




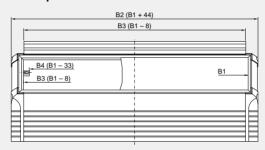
Technical Specifications

Optipanel Keyboard Housing Installation depth 2"/50 mm





Installation depth 4"/100 mm



Cross section cable duct connection

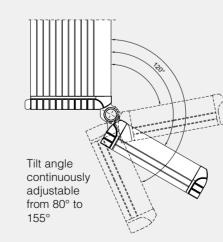


83 + 0.87 x H1* CP 6053.XXX: M5 CP 6058.XXX: M4 Max. installation depth

* valid for 30° tilt to

Keyboard housing connection

Frame hinge connector



Minimum width of front panel (W1):

depending on

- installation depth of operator housing
- with or without keyboard housing
- position of support arm connection

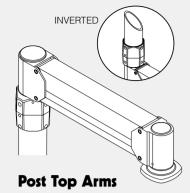
		Installation depth of operator housing						
2.5	2.3 Position of	2"/	4"/100 mm	6"/150 mm				
Keyboard	support arm	50 mm						
housing	connection	2.1						
0 without	0 to 8	160	150	150				
	top, bottom or	(265)						
	rear side							
1 and 2 with	1 4 7 8 top or from the							
	rear side							
	2 3 5 6	378*	339*	339*				
	bottom							

Only for configuration hinged rear wall version 2 and rear connection version 7 and 8.

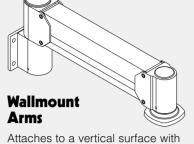
* Smaller width of front panels by asymmetric support arm connection is possible on request.

Technical Specifications

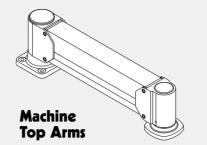
CP-Vertical Pendant Arm Systems



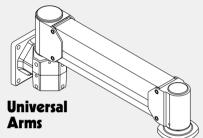
Attaches to a plain end 3.5" OD tube or pipe. Cables exit through tube.



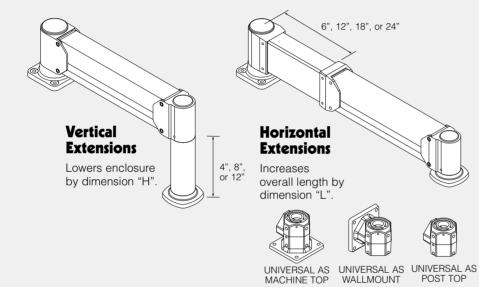
5.3" H x 6.0" W mounting plate with 4 (.5") Ø hole pattern on 4.75" H x 3.50" W centers. 2.0" Ø hole through center for cable exit. 2.5" NPS threaded opening as alternate cable exit.



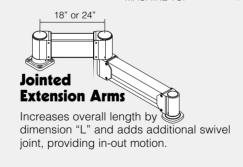
Attaches to horizontal surface with 5" x 5" mounting plate with 4 (.37") Ø hole pattern on 3.54" centers. 1.5" Ø hole through center for cable exit.

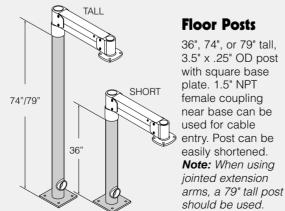


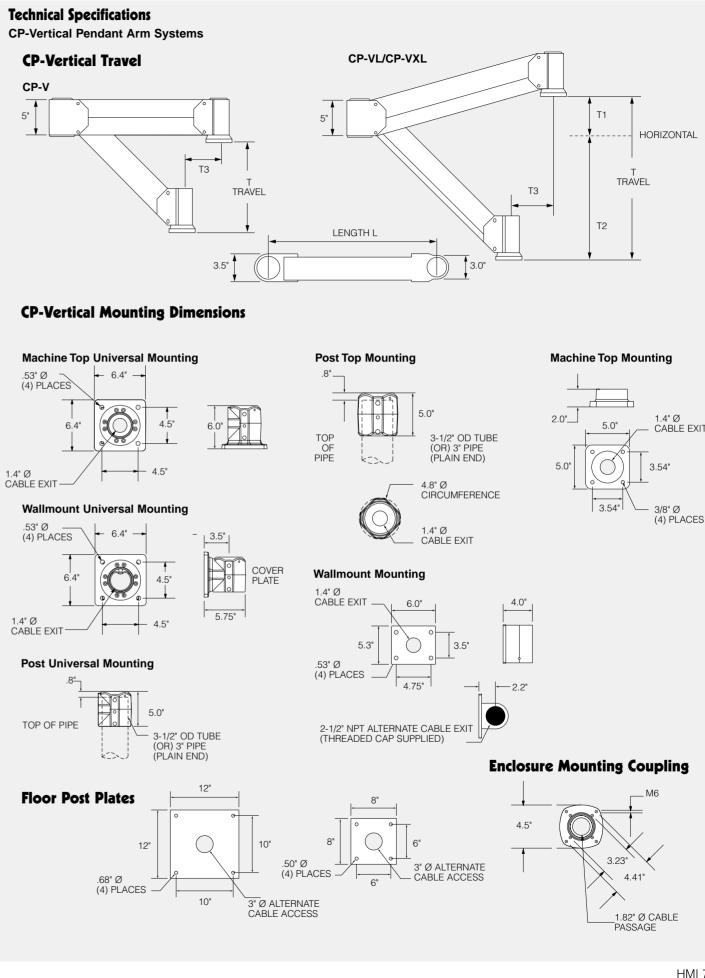
Designed for increased flexibility. Mounting method can be easily configured based on user requirements.



CP-Vertical Pendant Arm Specifications										
Part No.	Description	Max.	Vertical	T1	T2	T3	Length	Height	Base	
		load	travel T				(L)	(H)	plate	
9967987	Post top / CP-V	100 lbs	13"	-	-	5.6"	22.25"	-	-	
9967988	Post top / CP-VL	75 lbs	23"	5.9"	17.1"	6.3"	28"	-	-	
9967989	Post top / CP-VXL	50 lbs	30"	7.4"	22.6"	8.7"	35"	-	-	
9967993	Wallmount / CP-V	100 lbs	13"	-	-	5.6"	22.25"	-	-	
9967994	Wallmount / CP-VL	75 lbs	23"	5.9"	17.1"	6.3"	28"	-	-	
9967995	Wallmount / CP-VXL	50 lbs	30"	7.4"	22.6"	8.7"	35"	-	-	
9967996	Machine top / CP-V	100 lbs	13"	-	-	5.6"	22.25"	-	-	
9967997	Machine top / CP-VL	75 lbs	23"	5.9"	17.1"	6.3"	28"	-	-	
9967998	Machine top / CP-VXL	50 lbs	30"	7.4"	22.6"	8.7"	35"	-	-	
9967999	Universal mount / CP-V	100 lbs	13"	-	-	5.6"	22.25"	-	-	
9968000	Universal mount / CP-VL	75 lbs	23"	5.9"	17.1"	6.3"	28"			
9968001	Universal mount / CP-VXL	50 lbs	30"	7.4"	22.6"	8.7"	35"	-	-	

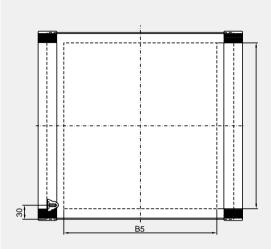


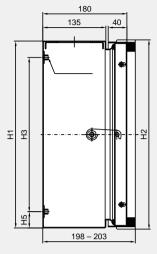


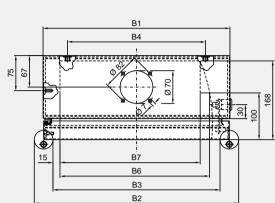


CP Pendant Arm Enclosures

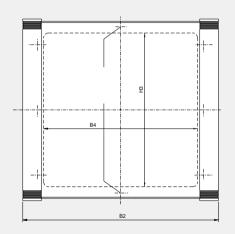
6534000-6538000

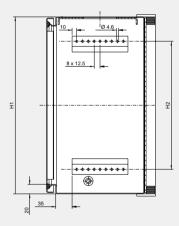


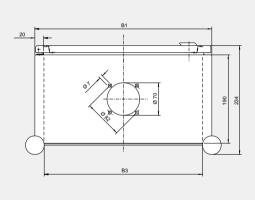




6530200-6533200/6540200







Enclosure												
Part No.		Height	dimensions			Width o	limensions		Depth	We	Weight	
	H1	H2	НЗ	H4	B1	B2	В3	B4	D	lbs	kg	
6540200	200	250	52.5	95	300	250	340	260	155	9.9	4.5	
6534000	200	205	122	155	300	338	258	260	180	22.0	10.0	
6535000	300	305	250	255	300	338	258	215	180	26.2	11.9	
6536000	300	305	250	255	400	438	358	295	180	29.1	13.2	
6537000	400	405	350	355	300	338	258	215	180	29.1	13.2	
6538000	400	405	330	355	400	438	358	295	180	30.8	14.0	
6531200	300	250	62.5	175	380	330	420	340	210	22.3	10.1	
6530200	380	330	52.5	275	380	330	420	340	210	18.3	8.3	
6533200	380	330	52.5	275	600	550	640	560	210	32.9	14.9	
6532200	500	450	62.5	375	500	450	540	460	210	28.7	13.0	

Dimensions in millimeters (mm) unless otherwise indicated.