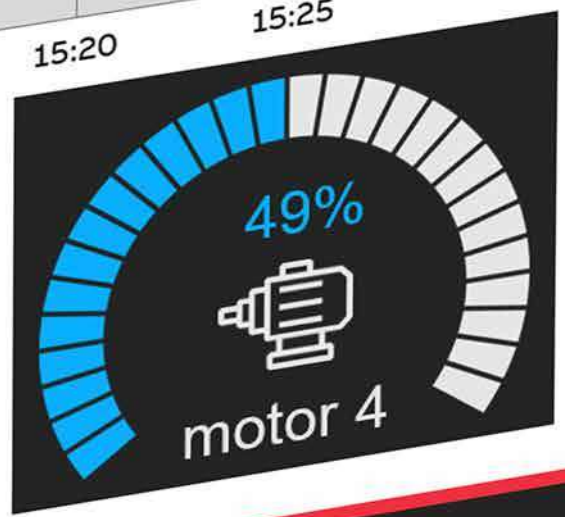
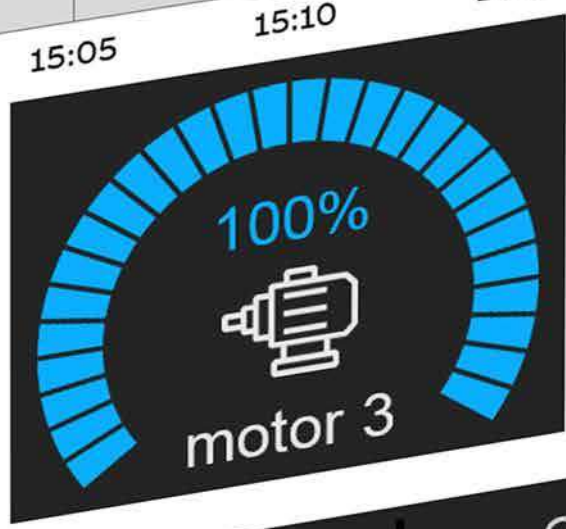
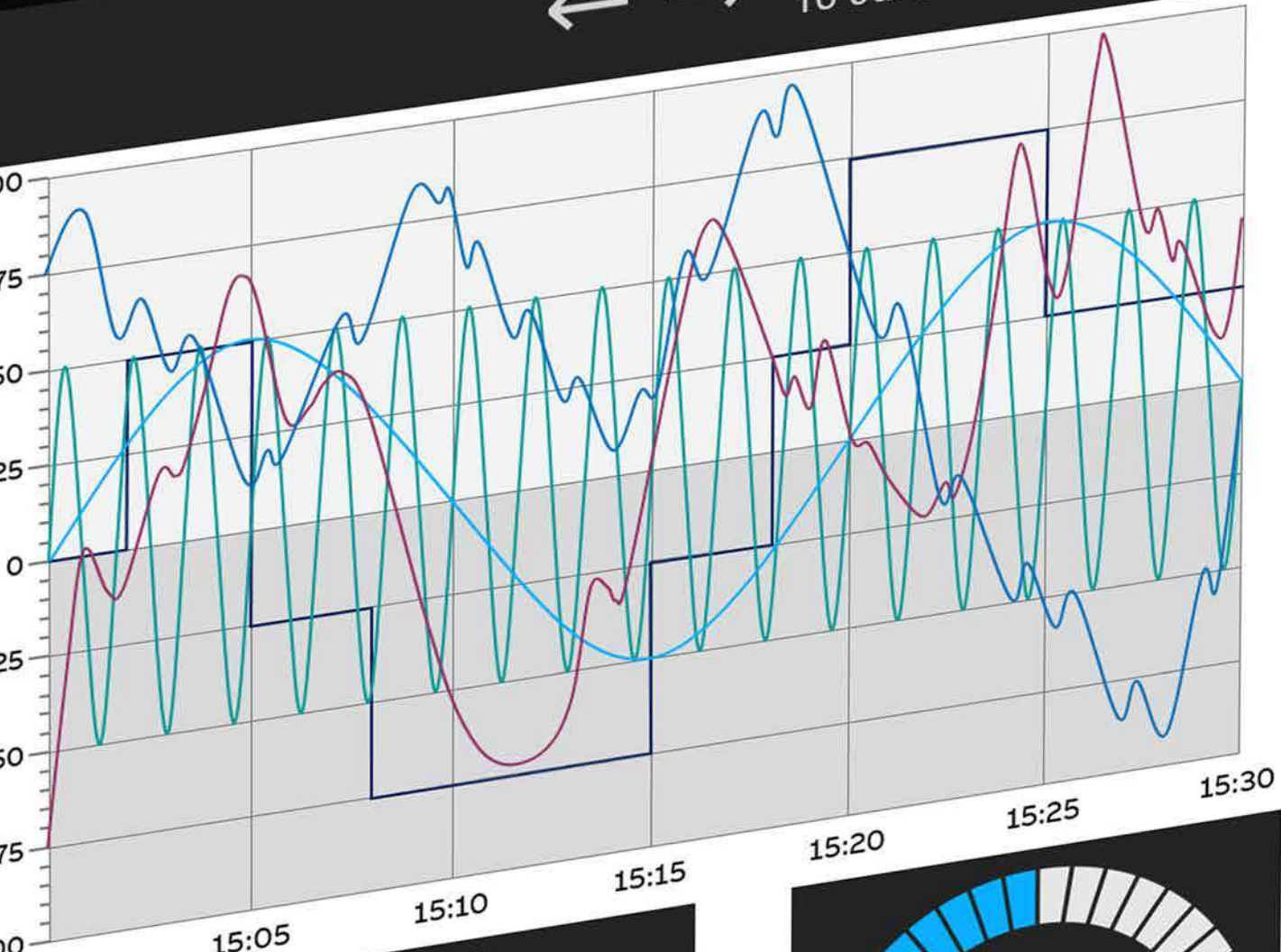

CP600-eCo, CP600, CP600-C and CP600-Pro Control panels

239	Key features
240–241	Ordering data
242–245	Technical data

← → 15:38:22
10 Jul 2024



HVAC

Chiller

Alarm

e 2

CP600-eCo, CP600, CP600-C and CP600-Pro

Key features



Find the HMI you need

Choose from 4 different product ranges and easily scale up or down later. CP600-eCO and CP600 offer resistive, CP600-C and CP600-Pro capacitive touch screens in various sizes.

Flexible application capabilities

Use Panel Builder 600 to create individual visualization projects, Chromium Browser to access AC500 V3 web visualizations.

Connected to your application

Easily communicate to AC500 PLCs, ABB drives, robots and other automation equipment with dedicated protocols.

CP600-eCo, CP600, CP600-C and CP600-Pro

Ordering data

CP600-eCo control panels

Display size	Resolution pixels	Description	Type	Order code	Weight (1 pce) kg
4.3"	480 x 272	for PB610 applications	CP604	1SAP504100R0001	0.290
7.0"	800 x 480	for PB610 applications	CP607	1SAP507100R0001	0.500
10.1"	1024 x 600	for PB610 applications	CP610	1SAP510100R0001	0.820
4.3"	480 x 272	black, for PB610 applications	CP604-B	1SAP504100R2001	0.290
7.0"	800 x 480	black, for PB610 applications	CP607-B	1SAP507100R2001	0.500
10.1"	1024 x 600	black, for PB610 applications	CP610-B	1SAP510100R2001	1.300

Visualization of AC500 V3 web server is supported by products with revision index C1 or higher.

CP600 control panels

Display size	Resolution pixels	Description	Type	Order code	Weight (1 pce) kg
7"	800 x 480	for PB610 applications or visualization of AC500 V3 web server	CP6407	1SAP540710R0001	0.920
10.4"	800 x 600	for PB610 applications or visualization of AC500 V3 web server	CP6410	1SAP541010R0001	1.820
15"	1024 x 768	for PB610 applications or visualization of AC500 V3 web server	CP6415	1SAP541510R0001	3.190

CP600-C control panels (1)

Display size	Resolution pixels	Description	Type	Order code	Weight (1 pce) kg
5.0"	800 x 480	for PB610 applications or visualization of AC500 V3 web server	CP6505	1SAP550510R0001	
7.0"	1024 x 600	for PB610 applications or visualization of AC500 V3 web server	CP6507	1SAP550710R0001	
10.1"	1280 x 800	for PB610 applications or visualization of AC500 V3 web server	CP6510	1SAP551010R0001	
15.6"	1920 x 1080	for PB610 applications or visualization of AC500 V3 web server	CP6515	1SAP551510R0001	

(1) In preparation



CP607



CP6410



CP6415

CP600-eCo, CP600, CP600-C and CP600-Pro

Ordering data

CP600-Pro control panels

Display size	Resolution pixels	Description	Type	Order code	Weight (1 pce) kg
5.0"	800 x 480	for PB610 applications or visualization of AC500 V3 web server	CP6605	1SAP560510R0001	0.740
7.0"	800 x 480	for PB610 applications or visualization of AC500 V3 web server (1)	CP6607	1SAP560710R0001	1.000
10.1"	1280 x 800	for PB610 applications or visualization of AC500 V3 web server (1)	CP6610	1SAP561010R0001	1.700
15.6"	1366 x 768	for PB610 applications or visualization of AC500 V3 web server (1)	CP6615	1SAP561510R0001	3.330
21.5"	1920 x 1080	for PB610 applications or visualization of AC500 V3 web server	CP6621	1SAP562110R0001	5.800

(1) Can be used to trigger safety actions in combination with AC500-S.



CP6605



CP6610



CP6621

Accessories

Description	Type	Order code	Weight (1 pce) kg
Installation accessory bag for CP600-Pro	TK6028	1SAP506028R0001	0.140
Installation accessory bag for CP600-eCo, CP600	TK6031	1SAP506031R0001	0.160

Programming software licenses

Description	Type	Order code	Weight (1 pce) kg
PB610 Panel Builder 600, engineering tool license for CP600-eCo, CP600, CP600-Pro control panels and PB610-R PC-runtime, for stand-alone installation via Automation Builder installer. PB610 is included in Automation Builder Standard.	PB610	1SAP500900R0101	0.010
PB610-R Panel Builder 600 runtime license for running a PB610 application on one Windows 32-/64-Bit platform. Installation via Automation Builder installer.	PB610-R	1SAP500901R0101	0.010

CP600-eCo series

Technical data

Type	CP604 CP604-B	CP607 CP607-B	CP610 CP610-B
Application	control panels for PB610 Panel Builder 600 applications		
	-	-	-
Display			
Exact display size diameter	4.3" widescreen	7" widescreen	10.1" widescreen
Resolution	480 x 272 pixels	800 x 480 pixels	1024 x 600 pixels
Display type, colors	TFT-LCD, 65536 colors		
Touch screen material	glass covered by plastic film		
Touch screen type	single-touch, analog resistive, 4 wires		
Backlight type, life	LED, 20 000 h typ at 25 °C		
Brightness	150 cd/m ²	200 cd/m ²	
System resources			
Processor type	ARM Cortex-A8; 300 MHz	ARM Cortex-A8; 300 MHz	ARM Cortex-A8; 1 GHz
Operating system, version	Linux RT		
Application memory	for HMI projects of 30 MB in total plus 30 MB for fonts		
Interfaces			
Ethernet ports, number, type	1 - 10/100 Mbit		
USB Host ports number, type	1 - ver. 2.0		
Serial ports number, type	1 - RS-232/-485/-422 software configurable		
Card slot number, type	none		
Power supply			
Power supply voltage nominal, tolerance	24 V DC, 18...32 V DC		
Current consumption at nominal voltage	0.25 A	0.3 A	0.4 A
Backup power type	Supercapacitor, 72 h at 25 °C		
Enclosure			
Degree of protection front, rear	IP66, IP20		
Front frame material	Plastic		
Reverse side material	Plastic		
Weight	0.4 kg	0.6 kg	1.0 kg
Faceplate dimensions (L x H)	147 mm x 107 mm	187 mm x 147 mm	282 mm x 197 mm
Faceplate depth	5 mm		6 mm
Enclosure depth	29 mm		
Cutout dimensions (L x H)	136 mm x 96 mm	176 mm x 136 mm	271 mm x 186 mm
Environmental conditions			
Operating temperature range	0...50 °C		
Operating humidity range	5...85 % relative humidity, non-condensing		
Storage temperature range	-20...+70 °C		
Storage humidity range	5...85 % relative humidity, non-condensing		
Approvals	See detailed page 262 or new.abb.com/plc		

CP600 series

Technical data

Type	CP6407	CP6410	CP6415
Application	control panels for PB610 Panel Builder 600 applications or visualization of AC500 V3 web server		
Display			
Exact display size diameter	7" widescreen	10.4"	15"
Resolution	800 x 480 pixels	800 x 600 pixels	1024 x 768 pixels
Display type, colors	TFT-LCD, 65536 colors		
Touch screen material	glass covered by plastic film		
Touch screen type	single-touch, analog resistive, 4 wires		
Backlight type, life	LED, 40 000 h typ at 25 °C		
Brightness	400 cd/m ²		
System resources			
Processor type	ARM Cortex-A8; 1 GHz		
Operating system, version	Linux RT		
Application memory	150 MB		
Interfaces			
Ethernet ports, number, type	2 - 10/100 Mbit (with integrated bridge function)		
USB Host ports number, type	2 - ver. 2.0		
Serial ports number, type	1 - RS-232/-485/-422 software configurable		
Card slot number, type	1 - Memory card slot		
Power supply			
Power supply voltage nominal, tolerance	24 V DC, 18...32 V DC		
Current consumption at nominal voltage	0.35 A	0.4 A	0.7 A
Backup power type, capacity	Rechargeable Lithium battery, not user-replaceable		
Enclosure			
Degree of protection front, rear	IP66, IP20		
Front frame material	aluminum		
Reverse side material	aluminum		
Weight	1 kg	2 kg	3.3 kg
Faceplate dimensions (L x H)	187 mm x 147 mm	287 mm x 232 mm	392 mm x 307 mm
Faceplate depth	4 mm		
Enclosure depth	40 mm	40 mm	45 mm
Cutout dimensions (L x H)	176 mm x 136 mm	276 mm x 221 mm	381 mm x 296 mm
Environmental conditions			
Operating temperature range	-20...+60 °C		
Operating humidity range	5...85 % relative humidity, non-condensing		
Storage temperature range	-20...+70 °C		
Storage humidity range	5... 85 % relative humidity, non-condensing		
Approvals	See detailed page 262 or new.abb.com/plc		

CP600-C series

Technical data

Type	CP6505 (1)	CP6507 (1)	CP6510 (1)	CP6515 (1)
Application	control panels for PB610 Panel Builder 600 applications or visualization of AC500 V3 web server			
Display				
Exact display size diameter	5" widescreen	7" widescreen	10.1" widescreen	15.6" widescreen
Resolution	800 x 480 pixels	1024 x 600 pixels	1280 x 800 pixels	1920 x 1080 pixels
Display type, colors	TFT-LCD, 16 MLN			
Touch screen material	real glass, black passepartout			
Touch screen type	multi-touch, 2-points gestures, PCAP, projected capacitive touchscreen			
Backlight type, life time	LED, 30 000 h typ at 25 °C			
Brightness	400 cd/m ²	400 cd/m ²	400 cd/m ²	350 cd/m ²
System resources				
Processor type	Dual Core ARM Cortex	Dual Core ARM Cortex	Dual Core ARM Cortex	Quad Core ARM Cortex
Operating system, version	Linux RT			
Application memory	in preparation			
Interfaces				
Ethernet ports, number, type	2 - 10/100 Mbit (with integrated bridge function)			
USB Host ports, number, type	2 - ver. 2.0			
Serial ports number, type	1 - RS-232/-485/-422 (software configurable)			
Card slot number, type	none			
Power supply				
Power supply voltage nominal, tolerance	24 V DC, 18...32 V DC - class 2			
Current consumption at nominal voltage	in preparation	in preparation	in preparation	in preparation
Backup power type, capacity	Rechargeable Lithium battery, not user-replaceable			
Enclosure				
Degree of protection front, rear	IP66, IP20			
Front frame material	plastic			
Reverse side material	plastic			
Weight	in preparation	in preparation	in preparation	in preparation
Faceplate dimensions (L x H)	147 mm x 107 mm	187 mm x 147 mm	282 mm x 197 mm	422 mm x 267 mm
Faceplate depth	8 mm	8 mm	8 mm	10 mm
Enclosure depth	29 mm	29 mm	29 mm	35 mm
Cutout dimensions (L x H)	136 mm x 96 mm	176 mm x 136 mm	271 mm x 186 mm	411 mm x 256 mm
Environmental conditions				
Operating temperature range	0...+50 °C			
Operating humidity range	5...85 % relative humidity, non-condensing			
Storage temperature range	-20...+70 °C			
Storage humidity range	5...85 % relative humidity, non-condensing			
Approvals	See detailed page 262 or new.abb.com/plc			

(1) In preparation