

# CP600-eCo and CP600 Control panels

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# CP600-eCo and CP600

## Key features

- Housing
  - CP600-eCo: Plastic
  - CP600: Aluminium
- Front protection IP66
- Engineering software Panel Builder 600 integrated in Automation Builder

- Improved flexibility and integration
- Two versions available:
  - CP600-eCo / CP600: Configuration with Panel Builder 600 for clear tailor made visualization.
  - CP600-WEB: visualization of AC500 web server with Automation Builder visualization. The Automation Builder debugging and diagnostics screens can be converted effortlessly for use with CP600-WEB control panels.



- Brilliant colored display
- Free reusable 3D graphic elements (Widgets)
- Import tags from PLC, drives, motion controller and robots configuration within Automation Builder

- Slim design for easily installation even in compact spaces

# CP600-eCo and CP600

## Ordering data



CP607



CP665

### CP600-eCo control panels

Display size	Resolution pixels		Type	Order code	Price	Weight (1 pce) kg
4.3"	480 x 272	for PB610-B Panel Builder 600 BASIC applications	CP604	1SAP504100R0001		0.400
7.0"	800 x 480	for PB610-B Panel Builder 600 BASIC applications	CP607	1SAP507100R0001		0.600
10.1"	1024 x 600	for PB610-B Panel Builder 600 BASIC applications	CP610	1SAP510100R0001		1.000

### CP600 control panels

Display size	Resolution pixels		Type	Order code	Price	Weight (1 pce) kg
4.3"	480 x 272	for PB610 Panel Builder 600 applications	CP620	1SAP520100R0001		0.950
4.3"	480 x 272	for AC500 WebServer visualization	CP620-WEB	1SAP520200R0001		0.950
5.7"	320 x 240	for PB610 Panel Builder 600 applications	CP630	1SAP530100R0001		1.150
5.7"	320 x 240	for AC500 WebServer visualization	CP630-WEB	1SAP530200R0001		1.150
7.0"	800 x 480	for PB610 Panel Builder 600 applications	CP635	1SAP535100R0001		1.100
7.0"	800 x 480	for AC500 WebServer visualization	CP635-WEB	1SAP535200R0001		1.100
10.4"	800 x 600	for PB610 Panel Builder 600 applications	CP651	1SAP551100R0001		2.100
10.4"	800 x 600	for AC500 WebServer visualization	CP651-WEB	1SAP551200R0001		2.100
12.1"	800 x 600	for PB610 Panel Builder 600 applications	CP661	1SAP561100R0001		2.800
12.1"	800 x 600	for AC500 WebServer visualization	CP661-WEB	1SAP561200R0001		2.800
13.3"	1280 x 800	for PB610 Panel Builder 600 applications	CP665	1SAP565100R0001		2.600
13.3"	1280 x 800	for AC500 WebServer visualization	CP665-WEB	1SAP565200R0001		2.600
15"	1024 x 768	for PB610 Panel Builder 600 applications	CP676	1SAP576100R0001		3.800
15"	1024 x 768	for AC500 WebServer visualization	CP676-WEB	1SAP576200R0001		3.800

### Communication cables (connection control panel <--> PLC)

Description	Type	Order code	Price	Weight (1 pce) kg
Communication cable RS232: CP600(-eCo) - AC500	TK681	1SAP500981R0001		0.130
Communication cable RS485: CP600(-eCo) - AC500-eCo	TK682	1SAP500982R0001		0.130

### Programming software

Description	Type	Order code	Price	Weight (1 pce) kg
PB610-B Panel Builder 600 Basic, engineering tool for CP600-eCo control panels, for stand-alone installation via Automation Builder setup. PB610-B is included in Automation Builder Basic.	PB610-B	1SAP500910R0001		0.005
PB610 Panel Builder 600, engineering tool for CP600 control panels, for stand-alone installation via Automation Builder setup. PB610 is included in Automation Builder Standard.	PB610	1SAP500900R0101		0.005
PB610-R Panel Builder 600 runtime for running a PB610 application on one Win32 platform. Installation via Automation Builder setup.	PB610-R	1SAP500901R0101		0.005

# CP600-eCo series

## Technical data

Type	CP604	CP607	CP610
<b>Application</b>	control panels for PB610-B Panel Builder 600 Basic applications		
<b>Display</b>			
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	analog resistive, 4 wires		
Backlight type, life	LED, 20 000 h typ at 25 °C		
Brightness	150 cd/m <sup>2</sup>	200 cd/m <sup>2</sup>	
<b>Housing</b>			
Protection class front, rear	IP66, IP20		
Front side material	Plastic		
Reverse side material	Plastic		
<b>System resources</b>			
Processor type	ARM 3352		
Operating system, version	Linux V3		
Application memory	for HMI projects of 30 MB in total plus 30 MB for fonts		
<b>Interfaces</b>			
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		
Additional ports number, type	none		
Card slot number, type	none		
Power supply voltage nominal, tolerance	24 V DC, 18...32 V DC		
Current consumption at nominal voltage	0.1 A	0.15 A	0.25 A
Battery type	Supercapacitor, 72 h at 25 °C		
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
Housing depth	29 mm		
Cutout dimensions (L x H)	135 mm x 96 mm	176 mm x 136 mm	271 mm x 186 mm
<b>Environmental conditions</b>			
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		
<b>Approvals</b>	See detailed page 154 or <a href="http://www.abb.com/plc">www.abb.com/plc</a>		

# CP600 series

## Technical data

Type	CP620	CP630	CP635	CP651	CP661	CP665	CP676
Application	control panels for PB610 Panel Builder 600 applications						
Type	CP620-WEB	CP630-WEB	CP635-WEB	CP651-WEB	CP661-WEB	CP665-WEB	CP676-WEB
Application	control panels for visualization of AC500 web server applications, provided by AC500, AC500-eCo PLCs						
<b>Display</b>							
Exact display size diameter	4.3" widescreen	5.7"	7" widescreen	10.4"	12.1"	13.3" widescreen	15"
Resolution	480 x 272 pixels	320 x 240 pixels	800 x 480 pixels	800 x 600 pixels	800 x 600 pixels	1280 x 800 pixels	1024 x 768 pixels
Display type, colors	TFT-LCD, 65536 colors						
Touch screen material	glass covered by plastic film						
Touch screen type	analog resistive, 4 wires						
Backlight type, life	LED, 40 000 h typ at 25 °C						
Brightness	150 cd/m <sup>2</sup>	200 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>				
<b>Housing</b>							
Protection class front, rear	IP66, IP20						
Front side material	Zamak			Aluminium			
Reverse side material	Zamak	Aluminium					
<b>System resources</b>							
Processor type	ARM Cortex A8: 600 MHz			ARM Cortex A8: 1 GHz			
Operating system, version	Microsoft Windows CE 6.0 Core						
Application memory	for HMI projects of up to 30 MB in total			for HMI projects of up to 60 MB in total			
<b>Interfaces</b>							
Ethernet ports, number, type	2 - 10/100 Mbit (with integrated Switch function)						
USB Host ports number, type	1 - ver. 2.0	2 - 1 ver. 2.0, 1 ver. 2.0 and ver. 1.1					
Serial ports number, type	1 - RS-232/-485/-422 software configurable						
Additional ports number, type	1 - Expansion slot for future modules	2 - Expansion slots for future modules					
Card slot number, type	1 - SD card slot						
Power supply voltage nominal, tolerance	24 V DC, 18...32 V DC						
Current consumption at nominal voltage	0.4 A	0.7 A	0.7 A	1.0 A	1.05 A	1.15 A	1.4 A
Battery type	Rechargeable Lithium battery, not user-replaceable						
Weight	0.95 kg	1.15 kg	1.1 kg	2.1 kg	2.8 kg	2.6 kg	3.8 kg
Faceplate dimensions (L x H)	147 mm x 107 mm	187 mm x 147 mm		287 mm x 232 mm	336 mm x 267 mm		392 mm x 307 mm
Faceplate depth	4 mm						
Housing depth	52 mm	47 mm		56 mm		60 mm	
Cutout dimensions (L x H)	136 mm x 96 mm	176 mm x 136 mm		276 mm x 221 mm	326 mm x 256 mm		381 mm x 296 mm
<b>Environmental conditions</b>							
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 154 or <a href="http://www.abb.com/plc">www.abb.com/plc</a>						