

DATA SHEET

Control Panel CP600-eCo

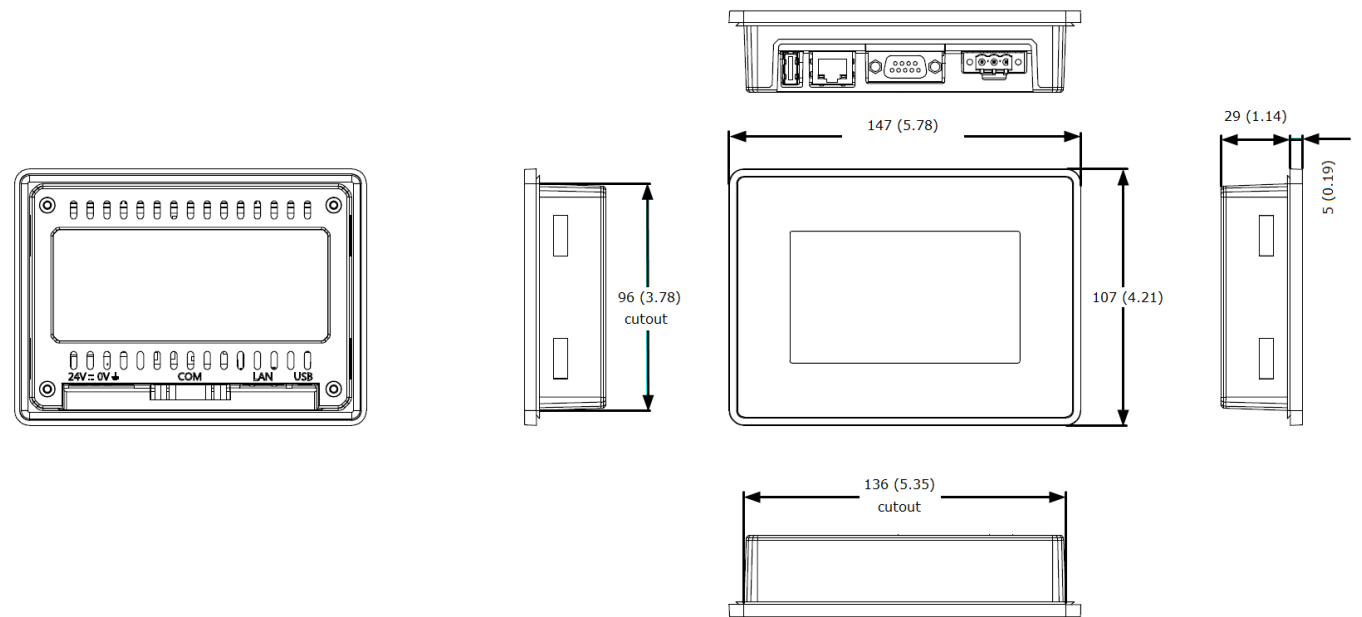
CP604, CP604-B



1 Ordering Data

Part No.	Description	Product Life Cycle Phase
1SAP504100R0001	CP604, control panel, TFT graphical display, single-touch screen, 4.3", 480 x 272 pixel, for PB610 applications and visualization of AC500 V3 web server	Active
1SAP504100R2001	CP604-B, control panel, TFT graphical display, single-touch screen, 4.3", 480 x 272 pixel, for PB610 applications and visualization of AC500 V3 web server, black	Active

2 Dimensions



The dimensions are given in mm and in brackets in inch.

3 Technical Data

3.1 Product Data

Parameter		Value
Display		
	Size diameter	4.3"
	Resolution	480 x 272 pixels
	Dimensions (L x H)	96,44 mm x 55,26 mm
	Type	TFT-LCD
	Number of colors	65536
	Brightness	150 cd/m²
Backlight		
	Type	LED
	Lifetime, typical	20 000 h at 25 °C
Touch screen		
	Type	Single-touch, resistive touch screen, 4 wires
	Material	glass, covered by plastic film
	Design	
	CP604	ABB design passepartout
	CP604-B	Black passepartout
System resources		

	Processor type	Up to revision E0: ARM Cortex-A8, 300 MHz From revision F0: ARM Cortex-A8, 1 GHz
	Operating system	Linux RT
	Application memory	For HMI projects of up to 60 MB
	RAM	256 MB
	Flash	2 GB
	Card slot	none
Data backup		Supercapacitor
	Battery type	none
	Data buffering time at 25 °C	Ca. 72 h at 25 °C
Real-time clock:		
	Accuracy	< 100 ppm at 25 °C
	With battery back-up	Yes (supercapacitor)

3.2 Interfaces

Parameter		Value
Network interfaces		
	Ethernet port 0	10/100 Mbit
Serial interfaces		
	COM1	RS-232/-485/-422 software configurable
	COM1 connection	D-sub
USB interfaces		
	USB port 1	Host interface V2.0, max. 500 mA

3.3 Power Supply

Parameter		Value
Supply voltage 24 V DC		
	Voltage	24 V DC (18...32 V DC)
	Protection against reverse polarity	yes
	Connection at the control panel	Removable 3-pin terminal block with screw connection
	Current consumption from 24 V DC	0.25 A

4 System Data CP600-eCo

4.1 Environmental Conditions

Parameter		Value	
Allowed interruptions of power supply			
Voltage dips, short interruptions and voltage variations immunity test			
	Port: AC mains; Phase: 0°...180°; Test executed on the 230 VAC side of the power supply, Level:		EN 61000-4-11
	40 % duration:	10 cycles (50 Hz);	
	70 % duration:	25 cycles (50 Hz);	
	100 % duration:	1 cycle and 250 cycles (50 Hz)	
Temperature			
	Operating	0...50 °C	
	Storage	-20...+70 °C	
	Transport	-20...+70 °C	
Humidity		5...85 % relative humidity, without condensation	
Air pressure		> 800 hPa / < 2000 m	
Ingress protection			
	Front	IP66	
	Rear	IP20	
Mechanical resistance			
	Vibration	5 ... 9 Hz, 7 mm; 9 ... 150 Hz, 1 g ^{p-p}	EN 60068-2-6
	Shock	± 50 g, 11 ms, 3 pulses per axis	EN 60068-2-27

4.2 Electromagnetic Compatibility

Parameter		Value	
	Radiated disturbance test	Class A	EN 55011
	Electrostatic discharge immunity test	8 kV (air electrostatic discharge) 4 kV (contact electrostatic discharge)	EN 61000-4-2
	Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ... 1 GHz, 10 V/m 1.4 GHz ... 2 GHz, 3 V/m 2 GHz ... 2.7 GHz, 1 V/m	EN 61000-4-3
	Burst immunity test	±2 kV DC power port ±1 kV signal line	EN 61000-4-4
	Surge immunity test	±0,5 kV DC power port (line to earth) ±0,5 kV DC power port (line to line) ±1 kV signal line (line to earth)	EN 61000-4-5
	Immunity to conducted disturbances inducted by radiofrequency field	0.15...80 MHz, 10 V	EN 61000-4-6

5 Mechanical Data

Parameter		Value
Housing		
	Front frame material	Plastic
	Front frame color	
	CP604	grey
	CP604-B	black
	Reverse side material	Plastic
	Reverse side color	
	CP604	grey
	CP604-B	black
	Faceplate dimensions (L x H)	147 mm x 107 mm
	Faceplate depth	5 mm
	Housing depth	29 mm
Weight		0.4 kg
Mounting		
	Cutout dimensions (L x H)	136 mm x 96 mm
	Mounting type	Panel mounting in cutout
	Mounting variants	Landscape and portrait mode
Minimum Compass Safe Distances		
	of standard compass	350 mm (13.77")
	of steering compass	200 mm (7.87")

5.1 Approvals and Certifications

Information on approvals and certificates can be found in the corresponding chapter of the Main catalog, PLC Automation

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