

DATA SHEET

Control Panel CP600-eCo

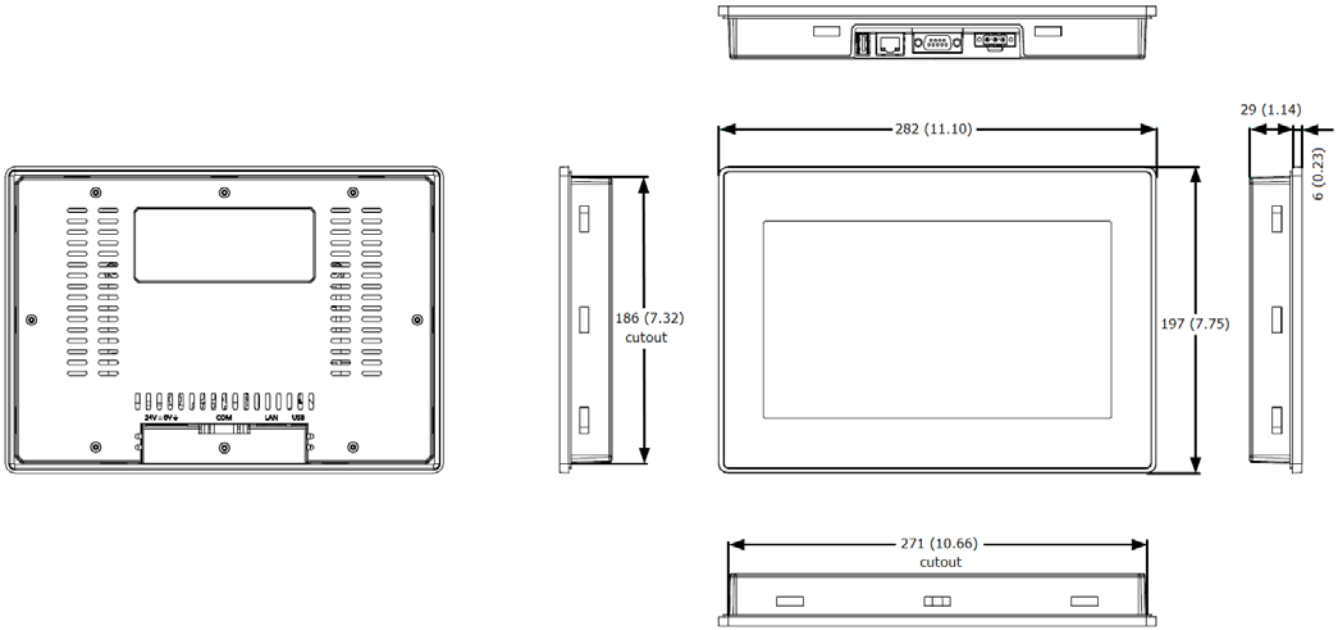
CP610




1 Ordering Data

Part No.	Description	Product Life Cycle Phase
1SAP510100R0001	CP610, control panel, TFT graphical display, single-touch screen, 10.1", 1024 x 600 pixel, for PB610 applications and visualization of AC500 V3 web server	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	10.1"
	Resolution	1024 x 600 pixels
	Type	TFT-LCD
	Number of colors	65536
	Brightness	200 cd/m ²
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	
System resources		
	Processor type	ARM Cortex-A8, 1 GHz

	Operating system	Linux RT
	Application memory	For HMI projects of up to 60 MB
	RAM	512 MB
	Flash	4 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	0.38 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

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Parameter		Value
Housing		
	Front frame material	Plastic
	Front frame color	
	CP610	grey
	Reverse side material	Plastic
	Reverse side color	
	CP610	grey
	Faceplate dimensions (L x H)	282 mm x 197 mm
	Faceplate depth	6 mm
Housing depth	29 mm	
Weight	1.0 kg	
Mounting		
	Cutout dimensions (L x H)	271 mm x 186 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	250 mm (9.84")

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