ABB CP651-WEB 1SAP551200R0001

Web Control Panel



AC500 web visualization panel. ABB CP651-WEB 1SAP551200R0001 is the CP600 web visualization panel for an AC500 V2.3 controller web server. It gives operators a 10.4-inch color touch interface to the visualization configured in the controller, bringing the application's process displays and interactive controls to the machine. Ethernet provides the network path for that web-based interface, and the resistive touchscreen supplies local operator input. The WEB designation is central to selecting this model: its intended role is to display the supported AC500 web visualization, with screen content and operating functions defined by that application.

Technical Specifications

Product Identity	
Manufacturer / ordering code	ABB / CP651-WEB 1SAP551200R0001
Product family / function	CP600 web control panel / AC500 V2.3 web-server visualization
Front / cut-out dimensions	287 × 232 mm front; 276 × 221 mm cut-out
Depth / weight	56 mm housing depth plus 4 mm faceplate; 2.1 kg
Functional Configuration	
Display	10.4-inch TFT LCD; 800 × 600 pixels; 65,536 colors
Touch technology	Single-touch, 4-wire resistive touchscreen
Brightness / backlight	300 cd/m2; LED backlight, typical life 40,000 h at 25 °C
Processor	ARM Cortex-A8, 1 GHz
Ethernet	2 × 10/100 Mbit/s; integrated switch function
Serial interface	COM1 configurable as RS-232 / RS-485 / RS-422; D-sub connector
USB / storage	2 USB host ports: one V2.0 and one V2.0/V1.1; SD-card slot
Performance & Power	
Memory	256 MB RAM; 256 MB flash
Supply voltage	24 V DC nominal; permitted range 18–32 V DC
Environment	
Operating / storage temperature	0 to +50 °C operating; –20 to +70 °C storage
Relative humidity	5–85%, non-condensing
Protection rating	IP66 at the correctly installed front; IP20 at the rear
Mounting orientation	Panel mounting; landscape or portrait

Selected original manufacturer material follows on page 3.

Compatibility & Selection Guide

Preserve the software-generation match. The WEB suffix and 1SAP551200R0001 code distinguish this microbrowser panel from the PB610 application model CP651. Verify the AC500 V2.3 web-server application and actual panel revision. ABB’s replacement guidance identifies newer browser alternatives for AC500 V3 and explicitly limits their use with V2.

Wiring & Installation Reference

Power and network connections

Supply · 24 V DC nominal; 18–32 V DC · Match supply capacity to the unit nameplate

Earth · Marked chassis earth and terminal 3 · Follow ABB grounding and insulation requirements

Ethernet · Two 10/100 Mbit/s ports · Check the AC500 V2.3 web-server network

COM1 · RS-232 / RS-485 / RS-422 configurable · A physical port does not prove application compatibility

Install and verify the web interface

1. Check the enclosure Confirm the 276 × 221 mm cut-out, flat sealing surface and 1.5–6 mm panel thickness.

2. Fit the seal and fasteners Install the gasket and brackets using the applicable CP600 procedure; front protection depends on correct mounting.

3. Verify controller visualization Check the panel’s network settings, touchscreen and the required AC500 V2.3 visualization. Do not substitute a newer browser generation without checking controller compatibility.

Installation precautions

Front IP66 does not apply to the IP20 rear; protect the rear inside the enclosure.

Use within 0 to +50 °C and 5–85% relative humidity without condensation.

Avoid continuous direct sunlight, corrosive chemicals and sharp tools on the touch surface.

Clean with a soft cloth and neutral soap; do not use solvents.

Manufacturer reference 1

DATA SHEET

Control Panel CP600

CP651, CP651-WEB



1 Ordering Data

Part No.	Description	Product Life Cycle Phase
1SAP551100R0001	CP651, control panel, TFT graphical display, single-touch screen, 10.4”, 800 x 600 pixel, for PB610 applications	Classic
1SAP551200R0001	CP651-WEB, control panel, TFT graphical display, single-touch screen, 10.4”, 800 x 600 pixel, for visualization of AC500 V2.3 web server	Classic