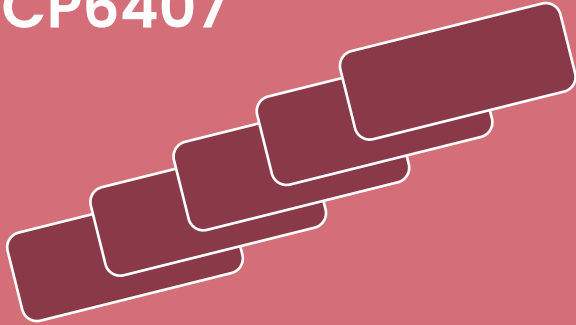


MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB 1SAP540710R0001-CP6407

HMI Project Integration Guide

ABB CP600 7-inch Industrial HMI Control Panel



DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB 1SAP540710R0001-CP6407
Reference number	1SAP540710R0001
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/1sap540710r0001-cp6407>
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Operator-to-controller data path

ABB ISAP540710R0001 CP6407 is a CP600 second-generation industrial HMI control panel with a 7-inch 800 x 480 color TFT display and resistive touchscreen. It presents PB610 application graphics and visualizes AC500 V3 web-server content so operators can view process information and interact with machine or plant controls.

01	Displays PB610 HMI application graphics and visualizes AC500 V3 web-server content.
02	Provides local resistive-touch operator input.
03	Serial port communicates with a PLC or another controller and is software-configurable for RS-232, RS-422 or RS-485 signals.
04	Two 10/100 Mbit Ethernet ports provide network communication.
05	Two USB 2.0 host ports support USB media and project transfer.

Panel and network integration

01	Country of origin and tariff code were not published in the cited ABB sources; the Heidelberg manufacturer address is not an origin statement.
02	The later operating instruction identifies one USB host port at 500 mA maximum and the other at 100 mA maximum.
03	Use 24 V DC nominal; ABB narrows the supply range to 18–32 V DC where EN 61131-2 10 ms voltage-dip compliance is required.

Project deployment checks

01	Only qualified personnel may install or repair the HMI.
02	Ground the unit with at least 1.5 mm ² conductor and follow applicable grounding regulations.
03	Use a power supply with sufficient capacity and double or reinforced insulation.
04	Avoid prolonged direct sunlight, corrosive chemical exposure and blocked ventilation openings.
05	Do not operate the touchscreen with screwdrivers or other tools.
06	Front IP66 protection depends on a flat cutout, correct dimensions, 1.5–6 mm panel thickness, proper gasket surface and correct bracket tightening.

Identity and release controls

Official Order Code	ISAP540710R0001
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Official ABB sources

CP6407 official ABB product page	https://www.abb.com/global/en/products/ISAP540710R0001
Control Panel CP600 2nd Generation CP6407 Data Sheet	https://library.e.abb.com/public/345b594d11d048adadb38c92263337ab/CP6407_Data_Sheet_3ADR010471%2C%202%2C%20en_US_RevB.pdf
Control Panels CP600 2nd Generation Operating Instruction	https://library.e.abb.com/public/7a7e137f668f4ba68028e4fafbbb0f18/3ADR010470%2C%204%2C%20en_US.pdf
CP600 control panel platform official ABB page	https://new.abb.com/plc/control-panels
ABB Metallurgy – Upgrades for Electromagnetic Stirring and Braking Systems	https://library.e.abb.com/public/0c3d99e96d0240d4811208d9a2e7f897/Upgrades%20for%20electromagnetic%20stirrers%20and%20brakes.pdf