ABB ACS-AP-I 3AUA0000064885

Assistant Control Panel



Local operation for compatible ABB drives. ABB ACS-AP-I 3AUA0000064885 is the assistant control panel used as the operator and maintenance interface for compatible ABB drives. It presents drive and motor status together with selected operating signals, such as speed, torque or power, and provides access to parameters and drive-specific assistants. Parameter backup and restore functions help preserve an established drive configuration, while the panel's diagnostic views support investigation of faults or warnings. Local start, stop and reference commands remain subject to the drive's selected control location and the functions supported by its firmware.

Technical Specifications

Product Identity	
Manufacturer / ordering code	ABB / ACS-AP-I 3AUA0000064885
Weight	143 g
Functional Configuration	
Function	Assistant control panel for compatible ABB drives
Display	Monochrome LCD; 240 × 160 pixels
Display adjustment	Backlight and contrast adjustable
Controls	Softkeys, arrows, Help, Start, Stop and Loc/Rem
Drive connection	RJ45 female; RS-485 panel communication and drive-supplied power
PC service connection	Mini-B USB; USB 2.0 / MTP
Wireless interface	No Bluetooth on ACS-AP-I
USB cable limit	Less than 3 m; temporary service
Panel bus limits	Maximum 100 m combined cable length; maximum 32 nodes
Protection when separate	IP20; installed protection depends on drive and mounting kit
Performance & Power	
Supply from drive	15–24 V DC (±10%)
Maximum supply current	65 mA at 24 V DC
Backup capacity	Two manual backups and one automatic backup
Clock battery	CR2032
Environment	
Operating temperature	–20 to +55 °C ambient
Storage / transport temperature	–40 to +70 °C
Humidity	Maximum 95%, non-condensing

Selected original manufacturer material follows on pages 3–5.

Compatibility & Selection Guide

Match the drive and engineering workflow. The Rev H compatibility table includes ACS580, ACS880 and other listed drive families, subject to their drive manuals and firmware requirements. Drive Composer can communicate with a compatible drive through the panel’s USB connection, and backups or screenshots can be transferred using MTP. Available menus and assistants depend on the connected drive.

Wiring & Installation Reference

Panel and service connections

Rear RJ45 · Drive panel communication and power · RS-485 interface; not an Ethernet network port

Mini-B USB · PC service and MTP file transfer · Cable shorter than 3 m

Panel bus · Connection to multiple supported units · Correct drive-specific adapters and termination required

Mounting clip · Direct drive attachment · Insert bottom first, then latch the top

Prepare and start safely

1. Check applicability Match the complete panel code, drive family, panel hardware/software and drive firmware.

2. Install the panel Follow drive-specific safety precautions, engage the lower end and press the upper end until the clip latches.

3. Confirm control location At start-up choose the language and follow the applicable assistant. Confirm local or remote control and the requested reference before operating the drive.

Installation precautions

Switching Local/Remote changes the source of drive commands; review the current remote command before switching.

During PC USB service, interaction is through Drive Composer. Exit the PC tool before disconnecting the USB cable.

The USB connector is intended for temporary service. Pull the cable straight to avoid connector damage.

Use the specified CR2032 battery with correct polarity; software updates and revision compatibility should be checked with ABB.

Manufacturer reference 1

Compatibility

The table below shows the drive types that are compatible with the following assistant control panel types.

Control panel type	ACS-AP-I	ACS-AP-S	ACS-AP-W	ACH-AP-H, ACH-AP-W	ACS-AP-WP
Drive	ACS180, ACS280, ACS380, ACS480, ACS530, ACS560, ACS580, ACH480, ACH580, ACQ580, ACS860, ACS880, ACQ80, ACS580MV, ACS6080, ACS8080, ACS5000W, DCS580, DCS880, DCT880	ACS180, ACS280, ACS380, ACS480, ACS530, ACS560, ACS580, ACQ80	ACS180, ACS280, ACS380, ACS480, ACS530, ACS560, ACS580, ACS860, ACS880, ACS580MV, ACQ80, ACS6080, ACS8080, DCS880, DCT880, ACS5000W	ACH180, ACH480, ACH531, ACQ531, ACH580, ACQ580	ACS180, ACS280, ACS380, ACS480, ACS530, ACS560, ACS580, ACS860, ACS880, ACS580MV, ACQ80, ACS380-E, ACS6080, ACS8080, DCS880, DCT880, ACS5000W

Note: The table may not be comprehensive. Refer to the appropriate drive manual for more details.

Safety

Follow all safety instructions of the drive.

Intended audience

This manual is intended for persons who use the assistant control panel ACS-AP-I, ACS-AP-S, ACS-AP-W, ACS-AP-WP, ACH-AP-H or ACH-AP-W.

Control panel and panel platform/holder LEDs

The ACS-AP-… control panel has a status LED. The control panel mounting platform or holder has two status LEDs. For status LED indications, refer to the following table.

Location	LED	Indication
Control panel	Continuous green	The unit operates normally.
	Flickering green	Data is transferred between the PC and the unit through the USB connection of the control panel.
	Flashing green	There is an active warning in the unit.
	Continuous red	There is an active fault in the unit.
	Flashing red	There is a fault that requires the stopping and restarting of the drive/converter/inverter.
	Flashing blue (ACS-AP-W and ACS-AP-WP only)	The Bluetooth interface is enabled, in discoverable mode, and ready for pairing.
	Flickering blue (ACS-AP-W and ACS-AP-WP only)	Data is transferred through the Bluetooth interface of the control panel.
Control panel mounting platform or holder (with the control panel removed)	Red	There is an active fault in the unit.
	Green	Power supply for the control unit is OK.

USB connector

The USB connector is used to connect the control panel to a PC. When it is connected, the control panel acts as an USB adapter for data transfer between the Drive Composer PC tool and the drive. It is also possible to transfer data between the PC and the control panel through the USB connection.

Refer to External connections (page 89).

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External connections

What this chapter contains

This chapter describes the USB and Bluetooth connection between the assistant control panel and a PC.

USB connection

The three main functions of the USB connection:

- The control panel acts as an USB adapter, allowing the Drive Composer PC tool to communicate with the drive. Refer to Connecting a PC tool to a drive through the control panel.
- It is possible to transfer data (for example, screenshots and backups) between the control panel and the PC with the Media Transfer Protocol (MTP) device.
- The USB port is intended for temporary service.

⚠WARNING

- Use the USB connector carefully. Otherwise the connector may break.
- Pull the USB connector cable correctly. Avoid pulling the cable in sideways direction.
- Some USB-C cables can only be used to charge. These cables do not support data transfer. Only use USB-C data cables with ACS-AP-WP control panel.