

CDP312R

Drive Control Panel

Provides local programming and control for ACS800 drives

PRODUCT SNAPSHOT

BRAND

ABB

FAMILY

ABB ACS800 drive control-panel system

PART

CDP312R

PRODUCT TYPE

Drive Control Panel

APTER POWER SALES TEAM

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PRODUCT OVERVIEW

Provides local programming and control for ACS800 drives

1

Provides local programming and control for ACS800 drives

2

Uses sixteen operator keys and a four-line display

3

Can monitor and control up to thirty-one drives

4

Supports IP54 cabinet-door mounting with the RPMP platform

SYSTEM COMPONENTS

ACS800 drive and RMIO control arrangement

approved panel connection or RPMP-13 mounting kit

ADPI interface board and shielded flat-oval cable where fitted

documented drive parameters and local-control assignment

TECHNICAL NOTE

The RPMP-13 kit includes the CDP312R panel and the mounting accessories. Connection details vary with ACS800 frame size, so preserve the installed panel recess or RMIO X39/ADPI arrangement exactly as documented.



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TECHNICAL DATA

PARAMETER	VALUE
Model	CDP312R
Product type	Drive control panel
Drive family	ACS800
Primary functions	Programming and local drive control

PARAMETER	VALUE
Keypad	16 keys
Drive monitoring capacity	Up to 31 drives
Display	4 lines x 20 characters
Panel mounting kit	Included with RPMP-13

ENGINEERING NOTE

The RPMP-13 kit includes the CDP312R panel and the mounting accessories. Connection details vary with ACS800 frame size, so preserve the installed panel recess or RMIO X39/ADPI arrangement exactly as documented.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
ABB RMIO-11C 3AUA0000035408	ACS800 motor and I/O control board	View ABB RMIO-11C 3AUA0000035408 page
ABB 3AFE64554476	ACS800 control-panel accessory	View ABB 3AFE64554476 page
ABB AC8-FLNGMT-R5	ACS800 flange-mounting accessory	View ABB AC8-FLNGMT-R5 page
ABB ACS800-U11-0030-2	ACS800 regenerative drive	View ABB ACS800-U11-0030-2 page

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APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

ACS800 local operation

Provides local programming and control for ACS800 drives

Drive parameter programming

Uses sixteen operator keys and a four-line display

Multi-drive status monitoring

Can monitor and control up to thirty-one drives

Cabinet-door panel mounting

Supports IP54 cabinet-door mounting with the RPMP platform

PRODUCT PRECAUTIONS

- 1 Verify the complete CDP312R marking and the assigned ACS800 drive before work.
- 2 Place the connected drive, motor and process in the approved maintenance state.
- 3 Isolate the drive according to ABB instructions and verify a safe de-energized condition before panel wiring work.
- 4 Record the local/remote state, panel connection, displayed diagnostics and parameter-backup status.
- 5 Protect the panel connector, shielded cable, ADPI board and RMIO interface from ESD and mechanical damage.
- 6 Confirm the ACS800 frame-specific panel recess or RMIO X39 connection before reconnecting CDP312R.
- 7 Restore the panel and cable without pinching the shielded flat-oval cable or disturbing the grounding path.
- 8 Verify display operation, local commands, parameter access and remote-control recovery before service release.



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ENGINEER FAQ

Q1 What is ABB CDP312R used for on an ACS800 drive?

ABB CDP312R is the local control panel used to program and locally control an ACS800 drive through its approved control-panel connection.

Q2 How many operator keys does ABB CDP312R provide?

ABB documents a 16-key control interface for CDP312R, supporting local commands and parameter navigation for the connected ACS800 drive.

Q3 What display format is provided by ABB CDP312R?

The CDP312R display provides four lines with twenty characters per line for drive status, signals and parameter interaction.

Q4 How many drives can ABB CDP312R monitor and control?

ABB states that CDP312R can monitor and control up to thirty-one drives when used in the documented multi-drive arrangement.

Q5 Which mounting kit includes ABB CDP312R?

The ABB RPMP-13 control-panel mounting platform kit includes the CDP312R panel together with its mounting and interface accessories.

Q6 What protection is achieved when ABB CDP312R is mounted on the RPMP platform?

ABB specifies IP54 protection for the control panel when it is properly attached to the RPMP mounting platform.

Q7 Which cabinet-door preparation applies to ABB CDP312R with RPMP mounting?

The official RPMP guide specifies a 115 mm by 242 mm cutout and a door-plate thickness from 1.5 to 2.5 mm.

Q8 How should ABB CDP312R be reconnected after replacement?

Restore the documented panel recess or RPMP arrangement, including the ADPI interface or RMIO X39 path applicable to the ACS800 frame, then verify local commands and displayed status.

SOURCE ABB ACS800 firmware manual and RPMP-11/13 installation guide | 3AFE68400643 Rev A; ACS800 SPRS firmware manual

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