

Cordis WiFi Adapter (CPCW-B1) Operating Instructions

The Clippard Cordis WiFi Adapter (CPCW-B1) provides direct wireless communication to dual-valve Cordis Series electronic pressure and flow controllers.

Designed for quick bench testing, field troubleshooting, and application tuning, the CPCW-B1 eliminates the need for terminal emulation software or dedicated serial wiring setups and can easily be connected inline with your existing setup.

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Technical Data

ELECTRICAL

Input Voltage	15 to 24 VDC
Power Options	Inline controller connection or wall wart power supply

SYSTEM

Interface	Standalone WiFi access point <i>(no external network required)</i>
Default IP Address	192.168.4.1
Default Network SSID	[Model#]-[Serial#]
WiFi Password	Cordis@123 <i>(case sensitive)</i>
Compatibility	iOS, Android, Windows, macOS <i>(via standard web browsers)</i>

COMPATIBILITY

Cordis Series Pressure Controllers	CPC, CHV, CHP
Cordis Series Flow Controllers	CFC

MORE DETAILS

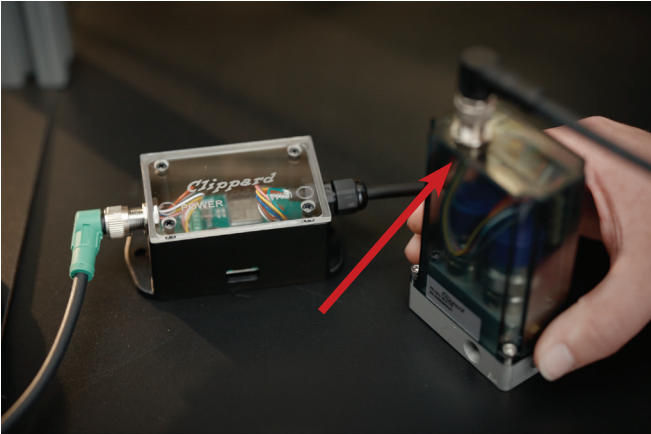
Website	clippard.com/link/cpcw
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Operational Description

Clippard's **Cordis WiFi Adapter** (CPCW-B1) provides direct wireless access for quick setup, bench testing, and troubleshooting of Cordis electronic controllers. Installed inline with existing system cabling, it eliminates the need for removal from the assembly, external WiFi networks, or terminal software like PuTTY. The adapter creates its own WiFi network to stream 12-bit serial monitor feedback directly to any mobile device or browser. Users can switch command modes, adjust live setpoints, and fine-tune or permanently save Proportional and Integral values. When system power is unavailable, an optional wall adapter powers the unit directly, making the compact WiFi adapter an ideal tool for field troubleshooting, bench tests, and demos.

Housed Models (Cordis CPC-H, CHV, CHP, CFC-H)

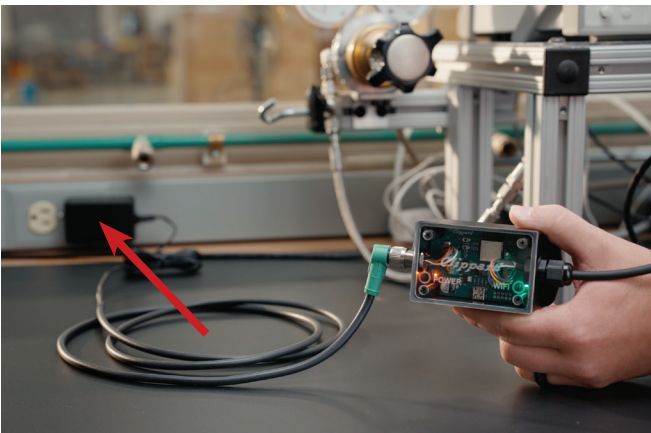
STEP - 1



*Always connect the WiFi adapter to the Cordis unit **first**, then apply power*

Connect the **CPCW-B1** 8-pin M12 connector directly inline between the main controller cable and the Cordis unit connector

STEP - 2

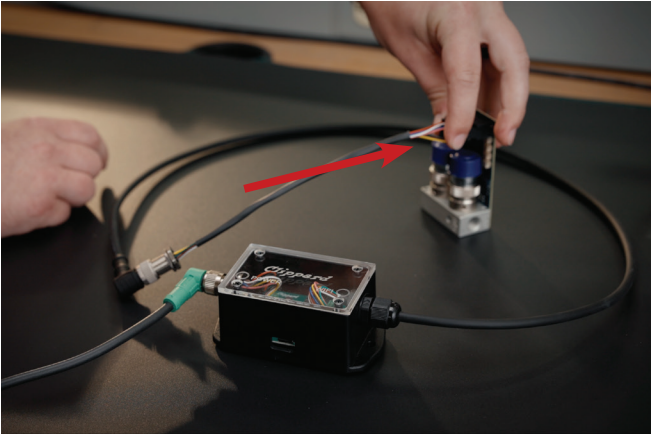


Auxiliary Power Setup:

If system power is unavailable, connect the wall wart plug adapter to power the **CPCW-B1** and Cordis unit for standalone bench testing

Card Models *(Cordis CPC-C, CFC-C)*

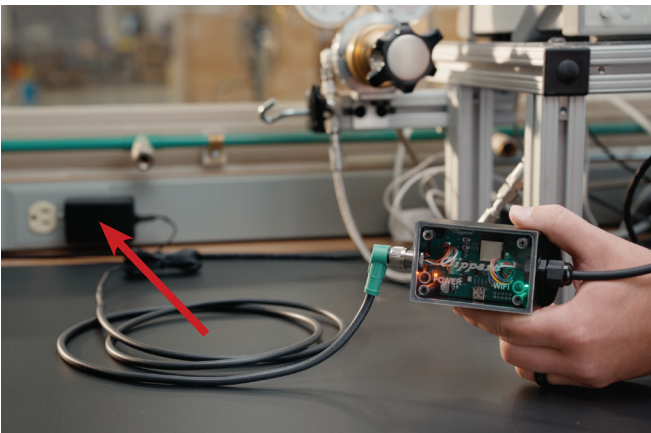
STEP - 1



*Always connect the WiFi adapter to the Cordis unit **first**, then apply power*

Connect the **CPCW-B1** 8-pin M12 connector directly inline between the main controller cable and the Cordis unit connector

STEP - 2



Auxiliary Power Setup:

If system power is unavailable, connect the wall wart plug adapter to power the **CPCW-B1** and Cordis unit for standalone bench testing

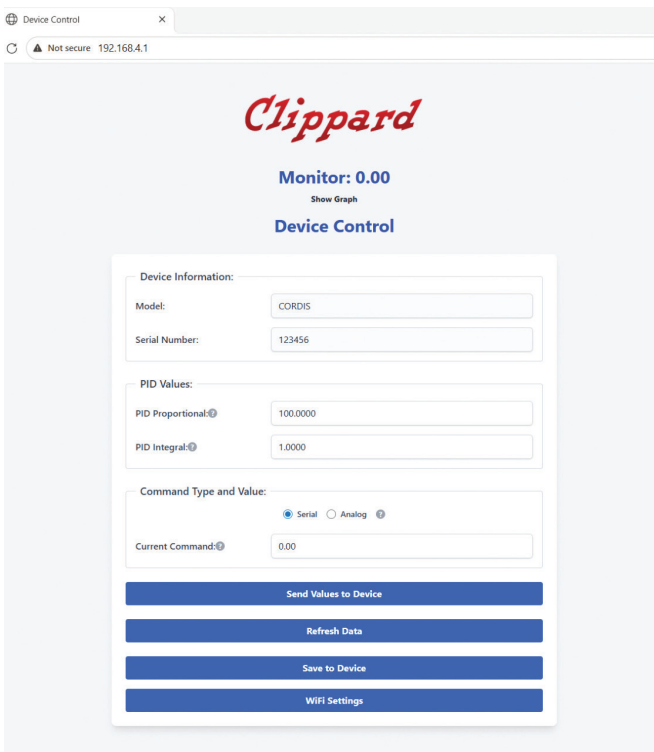
WiFi Connection Setup

STEP - 1



- 1) Power on the Cordis unit connected to the **CPCW-B1**
- 2) Open the WiFi settings menu on your mobile device or computer
- 3) Select the Cordis WiFi adapter network [Cordis Model#] - [Cordis Serial#]
- 4) Enter the default password (case sensitive) **Cordis@123**

STEP - 2



Mobile Devices (iOS / Android):

The device will automatically redirect to the web configuration interface upon connection

Desktop / Laptop Systems:

If it does not redirect automatically, open a web browser and enter **192.168.4.1** into the address bar

Web Interface & Device Control

The screenshot shows the Clippard web interface. At the top, the Clippard logo is in red script. Below it, the text "Monitor: 12.00" is displayed in blue, with a "Show Graph" link underneath. The "Device Control" section is highlighted in blue. It contains three main sections: "Device Information" with fields for Model (CPC-HFE-GA) and Serial Number (1301203001); "PID Values" with fields for PID Proportional (100.0000) and PID Integral (1.0000); and "Command Type and Value" with radio buttons for Serial (selected) and Analog, and a Current Command field showing 12.00. At the bottom, there are four blue buttons: "Send Values to Device", "Refresh Data", "Save to Device", and "WiFi Settings". The "Send Values to Device" and "Save to Device" buttons are circled in red.

Send values to Device

Changes the settings until the Cordis unit is power cycled

Save to Device

Makes the changes permanent

For instance, if high frequency valve flutter is noticed when command changes are made, it is best to lower the **Proportional** value. The suggested amount to change is valve and downstream volume dependent. You can click on the "?" next to the Proportional setting for suggestions.

If the unit overshoots its set point, it is best to lower the **Integral** value by 0.1 per test.

Touch in the box for the value you want to change and enter your new value. Once this is done, touch "**Send Values to Device**", change the value and continue the testing.

Once you find good values, touch "**Save to Device**".

Web Interface & Device Control



Clippard

Monitor: 12.00
Show Graph

Device Control

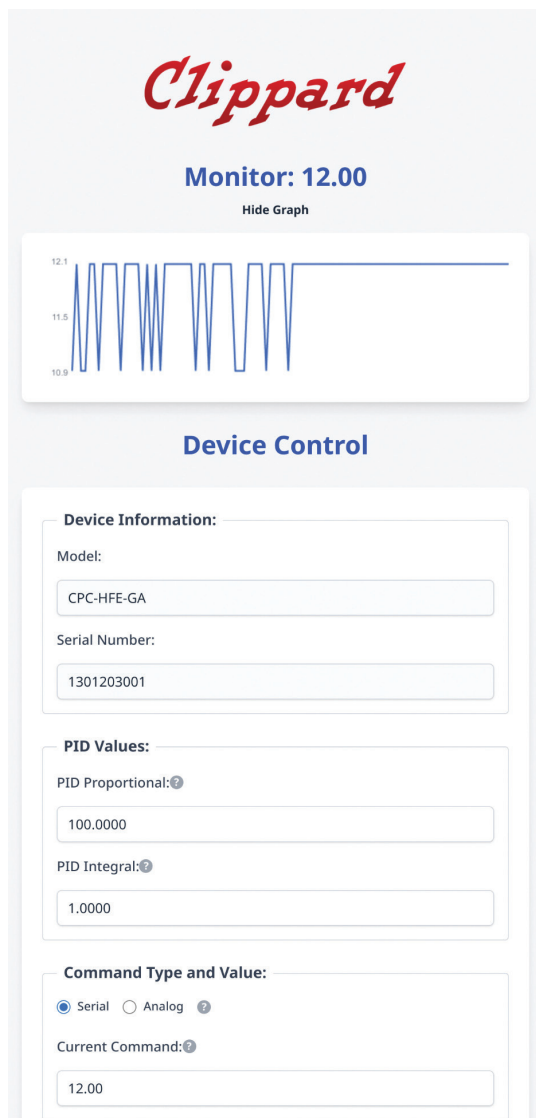
Device Information:

Model:
CPC-HFE-GA

Serial Number:
1301203001

Show Graph

Opens a live, realtime graph of the last 100 monitor readings from the serial output and is displayed as 0-100%



Clippard

Monitor: 12.00
Hide Graph

Device Control

Device Information:

Model:
CPC-HFE-GA

Serial Number:
1301203001

PID Values:

PID Proportional: 100.0000

PID Integral: 1.0000

Command Type and Value:

☒ Serial ☐ Analog ?

Current Command: 12.00

ORDERING INFORMATION

C P C W - B 1

For more info, scan the
QR code or visit
clippard.com/link/cpcw



Accessories | Cables (all included)



M12 electrical adapter for housed unit
Included



M12 electrical adapter for card unit
Included



Wall wart power supply
Included (and required for all card units)



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Limited Warranty

All information contained in this publication is for reference only. Proper design engineering procedures should be used to assure any compliances. Clippard Instrument Laboratory, Inc. reserves the right to make changes without notice and does not warrant or guarantee the information contained herein.

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Proudly made in the USA.

CORDIS ELECTRONIC CONTROLLERS