

Connect directly in AP mode

Use a phone, tablet or computer. No router or internet is needed for direct local control.

Direct connection details

Network: CamperPressure-XXXXXX — use the suffix on your controller

Password: ihatedust (all lowercase)

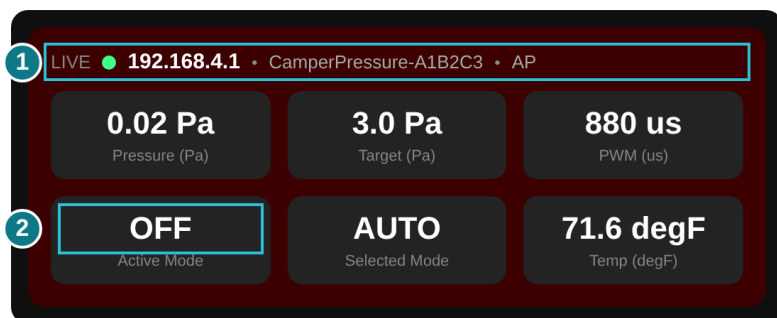
Web app: <http://pressure.local>

Fallback / before updating: <http://192.168.4.1>

1. Power the controller. Wait for startup. With no saved Wi-Fi it starts AP mode; a failed saved-network attempt can take about 12 seconds. The fan may start automatically.

2. Join the controller Wi-Fi. Open your device's Wi-Fi settings, select the displayed CamperPressure network and enter ihatedust. Stay connected if a No Internet warning appears.

3. Open your browser. Enter <http://pressure.local> in the address bar. Use the numeric fallback if the name fails or the firmware is older than 2.9.4. Open your regular browser, not the automatic Wi-Fi sign-in window.



1 AP + LIVE

Check the AP network name and address. Watch the LIVE dot flash as status refreshes.

2 Active vs selected

OFF is active in this example. AUTO is only selected; selecting alone does not start it.

What to look for: the controller AP name, address and flashing LIVE dot. Values are illustrative. [F5]

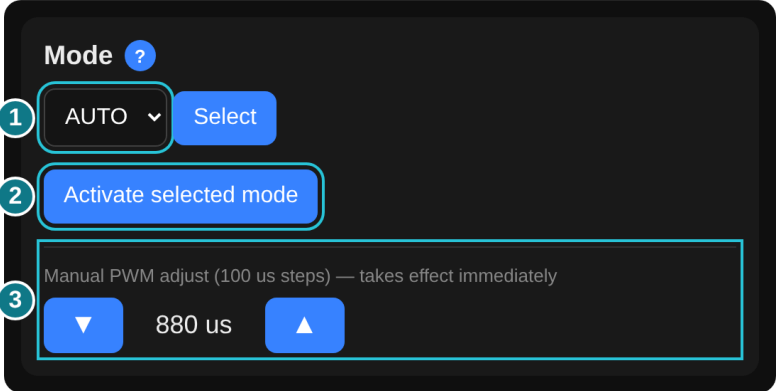
4. Verify before operating. Check that LIVE keeps flashing. Old readings can remain on the page after a lost connection. Use the controls on page 2; save your one icon using page 4.

No AP showing? If the controller says STA, follow page 3. The AP switches off when the saved owner Wi-Fi connects.

Illustrations use the reviewed 2.9.2 portal source; pressure.local directions follow the owner's 2.9.4 workflow. Newer labels may differ.

Operate the web app

The same controls work through AP mode and the owner’s Wi-Fi. Selecting and activating are separate actions.



1 Choose + Select

Choose a mode, then press Select to save the selection.

2 Activate

Press Activate selected mode to apply it to the fan.

3 Manual override

These arrows act immediately. Avoid them for normal setup.

Mode controls: choose a mode, press Select, then press Activate selected mode. [F5]

To do this	Use these controls
Run AUTO	In Auto Target, confirm Target Pa 3.0 and Gain (Kp) 0.70, or your installer’s settings. Press Save if changed. Choose AUTO in Mode, press Select, then Activate selected mode.
Run a fixed speed	Choose VENT, LOW, MED or HIGH. Press Select, then Activate selected mode.
Stop the turbine	Choose OFF, press Select, then Activate selected mode. Confirm Active Mode is OFF, PWM returns to 880 us and the fan stops.

Read Active Mode, not Selected Mode alone

Selected Mode is waiting to be applied. Startup activates the saved selected mode, so select and activate OFF before a planned reboot when the fan must remain stopped.

The live card also shows pressure, target, PWM and temperature. PWM is an ESC command, not measured RPM. The LIVE dot confirms a portal status response; it does not confirm pressure-sensor health. [F3, F5]

Before using Zero Sensor

Activate OFF, wait for equal pressure at both sensing references, then press Zero Sensor in Auto Target. Zero does not stop the fan. Avoid manual PWM arrows during normal setup; activate a mode again to cancel an override.

Closing the browser, changing Wi-Fi or letting the controller screen go dark does not stop the fan. Detailed calibration and screen settings are in the Instruction Manual.

Connect to your own Wi-Fi

Start in the AP portal. Select and activate OFF before the setup reboot if the fan should remain stopped.

The screenshot shows the 'Wi-Fi' configuration screen. At the top, there's a 'Wi-Fi ?' header. Below it, the 'SSID' section has a text input field containing 'MyCamperWiFi' (callout 1) and a 'Scan' button. Below the input field, the selected SSID 'MyCamperWiFi' is shown with a signal strength indicator 'III -49dBm'. The 'Password' section has a text input field with masked characters (callout 2). At the bottom, there is a 'Save & Reboot' button (callout 3).

1 Choose a network

Press Scan and select your 2.4 GHz network, or enter its SSID.

2 Enter its password

Use the owner Wi-Fi password, not the controller AP password.

3 Save & Reboot

The controller restarts. Then join the owner network on your phone, tablet or computer.

Scroll to Wi-Fi and follow callouts 1–3. Use a network with 2.4 GHz Wi-Fi available. [F5, S3]

Re-enter the owner Wi-Fi password whenever using Save & Reboot: submitting a blank field overwrites the saved password. For normal first setup, leave manual IP, Gateway and Subnet fields blank and keep Lock DHCP assignment checked. Old manual settings may need clearing separately. [F5]

4. Wait for STA. After reboot, the controller should show your network name, STA and a local IP address. Its direct AP disappearing is expected.

5. Join the owner network. In your phone, tablet or computer's Wi-Fi settings, join the same local network as the controller.

6. Open the same address. Use <http://pressure.local> or your saved hostname icon. If it fails, try <http://> followed by the displayed STA IP. Update older firmware using pages 5–6.

The screenshot shows the main status screen. At the top, a status bar (callout 1) displays 'LIVE' with a green dot, the IP '192.168.1.87', the Wi-Fi name 'MyCamperWiFi', and 'STA'. Below this, there are six data cards. The first row contains '3.10 Pa' (Pressure (Pa)), '3.0 Pa' (Target (Pa)), and '1280 us' (PWM (us)). The second row contains 'AUTO' (Active Mode) (callout 2), 'AUTO' (Selected Mode), and '71.6 degF' (Temp (degF)).

1 STA connection

Look for your Wi-Fi name, STA and the local IP. Keep this IP as a fallback address.

2 Confirm operation

Check LIVE is updating, then verify the active mode and pressure. Example readings are shown.

Successful owner-network connection: your Wi-Fi name and STA appear in the top status bar. [F5]

To return to direct AP: activate OFF, choose Clear Wi-Fi / Return to AP Mode and confirm. Rejoin CamperPressure-XXXXXX after reboot. A saved network becoming unavailable also triggers fallback AP after about 12 seconds; internet loss alone does not. [F5]

One address. One icon.

On firmware 2.9.4 or newer, pressure.local is the controller’s local name for both connection methods.



Save this address: **http://pressure.local**

One icon for direct AP Wi-Fi and your own Wi-Fi. Connect to the correct local network before opening it.

Icon artwork from the supplied firmware; this is not a screenshot of an Apple menu.

Because the saved address is a name rather than a fixed IP, changing between direct AP and owner Wi-Fi does not require another icon. Your device must still be on a local network that can reach and resolve the controller. [U1, S4]

Add to Home Screen on iPhone or iPad (optional)

- 1. Open the address in Safari.** Join the controller AP or the owner Wi-Fi, enter `http://pressure.local` and confirm LIVE updates. Make sure the page address uses `pressure.local`, not a numeric IP. Update first if below 2.9.4.
- 2. Open sharing.** On iPhone, use Page Menu > Share, or the visible Share button. On iPad, tap Share, then View More when needed. Choose Add to Home Screen; on iPhone check Edit Actions if it is missing. [S1, S2]
- 3. Add the icon.** Use Positive Pressure or keep Positive Pressure Turbine. Enable Open as Web App when offered, then tap Add. [S1, S2]
- 4. Use it on either network.** Connect to the appropriate local Wi-Fi first, then tap the same icon. It does not switch Wi-Fi for you or provide remote internet control.

When the address or icon will not open

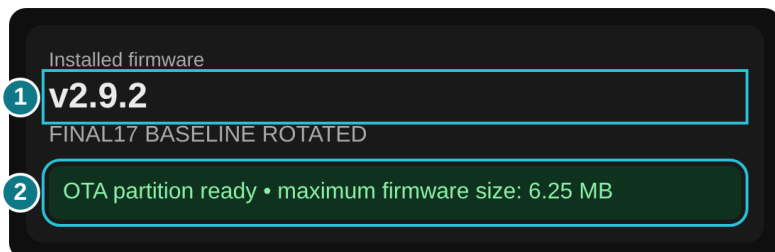
Check	Action
Firmware and Wi-Fi	Confirm 2.9.4 or newer, controller power and the correct local network. Try <code>http://pressure.local</code> in your browser.
Only the numeric IP works	Use that IP for diagnosis; check local name resolution or network isolation. Return to the same hostname icon when access works again.
An older IP-based icon	After <code>pressure.local</code> opens successfully, replace the old IP-based shortcut once. Do not create separate AP and owner-Wi-Fi icons.

The controller must remain powered and reachable. A router internet outage does not prevent local control while Wi-Fi still works.

Check the version and update

This guide requires firmware 2.9.4 or newer. Already on that version or newer? No update is needed solely for this guide.

1. Reach an older controller by numeric IP. Use `http://192.168.4.1` on its AP, or `http://` followed by its displayed STA IP on the owner network. Open Firmware > Updates & Upload.



1 Read the version

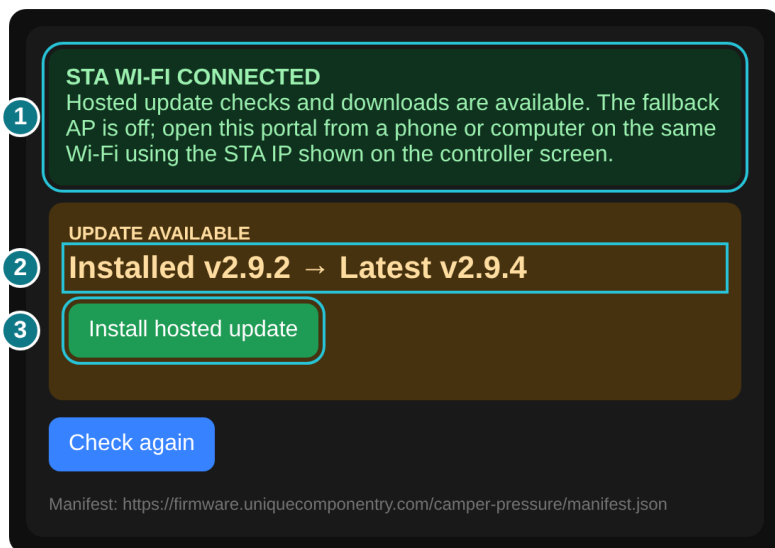
This example unit is still on v2.9.2 and needs updating before using pressure.local.

2 OTA readiness

The actual device must have an OTA firmware slot. Read any warning shown here.

Read Installed firmware and OTA readiness. This example shows an older unit that needs an update. [F7]

2. Choose a method. For a hosted update, connect the controller to internet-capable Wi-Fi and press Check again. For a saved .bin file or AP-only upload, use page 6.



1 Controller connection

Hosted checks require internet access through the owner Wi-Fi.

2 Compare versions

Example only: installed 2.9.2, offered 2.9.4. Actual release details will vary.

3 Install hosted update

Review the offered release, then confirm installation. Keep power connected.

Hosted-update example. The offered release and status on your controller may be different. [F7]

3. Install a suitable release. When version 2.9.4 or newer is offered, review the details, press Install hosted update and confirm. Keep power connected until installation succeeds and the controller restarts.

CURRENT only compares the installed version with the hosted release. Read the version number itself. A release below 2.9.4 does not meet this guide's requirement. The update process stops the fan and saves OFF. [F7]

Upload a saved firmware file

Use an official application .bin intended for this controller. A saved file can be uploaded through the direct AP without internet.

Upload compiled firmware

Download the latest official firmware from firmware.uniquecomponentry.com, then select the downloaded .bin file below. Upload only the official firmware .bin file. Do not upload bootloader, partition, merged, or filesystem files.

1

Download Latest Firmware

2

Choose File No file chosen

3

Upload and install

Keep power connected and leave this page open until the controller reports success and reboots.

1 Get the file first

Download the official application .bin while you have internet access.

2 Choose the .bin

Select the locally saved firmware file. Do not choose a ZIP or bootloader.

3 Upload and install

Confirm, then wait for success and restart. 100% upload alone is not completion.

Upload compiled firmware. Download the file before joining an internet-free AP connection. [F7]

1. Obtain and save the right file. Use Download Latest Firmware while internet access is available, or obtain the official file from the supplier. Save it locally before joining the controller AP. Do not select a ZIP, bootloader, partition, merged or filesystem image.

2. Upload and wait. In Upload compiled firmware, select the file, press Upload and install, and confirm. Keep power connected and leave the page open. Wait for an installation-success message and restart, not just 100% upload progress.

3. Reconnect and verify. Reopen the portal using the displayed numeric address. Confirm Installed firmware is 2.9.4 or newer, review settings and pressure zero, then open <http://pressure.local>. Save the one Home Screen icon using page 4; activate a mode when ready.

If an update cannot proceed

Read the exact error and verify the installed version before retrying. OTA partition not found requires installer assistance with a USB flash and the supplied Custom partition table; repeating uploads cannot create a missing slot.

Source basis: [F5] [network_portal.cpp](#) portal/control forms; [F7] its updater and partitions.csv; [F3] [control.cpp](#). All are from the supplied FINAL17 2.9.2 source. [U1] The 2.9.4 pressure.local workflow is owner-specified; newer-source review and hosted availability remain unverified. Illustrations use example values.

[S1] Apple: iPhone Home Screen web app

[S2] Apple: iPad Home Screen web app