

2-Channel Web Relay Pro Quick Guide

LanPOE

Model: LP-WR2CH-XPRO
Type: Web Relay



Quick Guide Overview

- Default IP address
- First-Time Setup
- Default username and password
- Accessing the device with Access Point mode
- Changing network settings (DHCP/Static IP)
- Basic relay control
- HTTP URL relay triggering
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Default IP Address

This device uses a DHCP-assigned IP address for normal operation. This means the device does not use a fixed default IP on your main network.

After it connects by Ethernet or Wi-Fi, your router assigns the normal operating IP address.

- For first-time setup, connect to the device's Wi-Fi access point and open:

<http://192.168.7.1/>

- At this address, the device shows a lightweight setup page that helps you find the network address assigned for normal operation.



First-Time Setup

- Step 1** Power on the device and wait for it to finish booting.
- Step 2** On your phone or laptop, connect to the LanPoE setup Wi-Fi AP.
- The AP name is normally `relay-##-##`.
 - The default AP password is `password`.
- Step 3** Open a browser and go to:
- <http://192.168.7.1/>
- Step 4** If Ethernet is connected, the setup page will show the device's Ethernet status and DHCP IP address.
- Step 5** If the Ethernet link shows Connected and an Ethernet IP is listed, reconnect your phone or laptop to the same main network as the device.
- Step 6** Open a browser and go to the displayed Ethernet IP address:
- <http://192.168.1.202/>
- Step 7** If Ethernet is not available, use the Wi-Fi setup section on:
- Enter the main Wi-Fi network name.
 - Enter the Wi-Fi password.
 - Save the Wi-Fi settings.
 - Reconnect your phone or laptop to that same Wi-Fi network.
 - Find the device's DHCP IP from your router or network scanner, then open it in a browser.

Notes

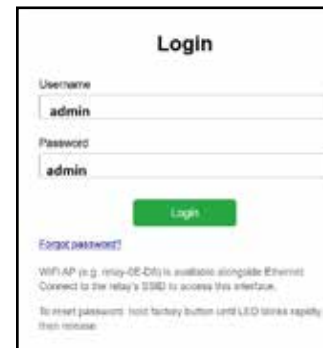
- 192.168.7.1 is only for the temporary setup AP, not the normal operating address.
- The normal device address is the DHCP IP assigned by your network.
- If Ethernet is connected, the DHCP IP is shown on the setup page.
- If Ethernet is not connected, use the setup AP page to configure Wi-Fi first.

Default Username & Password

In order to login to LanPoE network relay's interface, please enter the default username & password.

- For security, change default credentials after first login.

- Username: **admin**
- Password: **admin**



The screenshot shows a web-based login interface. At the top, the word "Login" is centered. Below it, there are two input fields: "Username" and "Password". Both fields contain the text "admin". Below the password field is a green "Login" button. Underneath the button, there is a link that says "Forgot password?". At the bottom of the form, there is a small block of text: "WiFi AP (e.g. rmlay-05-D01) is available alongside Ethernet. Connect to the relay's SSID to access this interface. To reset password: hold factory button until LED starts rapidly then release."

Accessing the LanPoE Web Relay Pro with the Access Point Feature

Use this method when your PC/phone is not on the same subnet as the relay.

- Step 1** Open Wi-Fi settings on your device.
- Step 2** Find and connect to SSID: `relay (serial number)`.
- Step 3** Enter password: `password`.
- Step 4** Open browser and navigate to: `http://192.168.7.1/dashboard.html`

After login, configure station network settings as needed.

Changing Network Settings (DHCP/Static IP)

Use this method when your PC/phone is not on the same subnet as the relay.

Step 1 Login to the web UI.

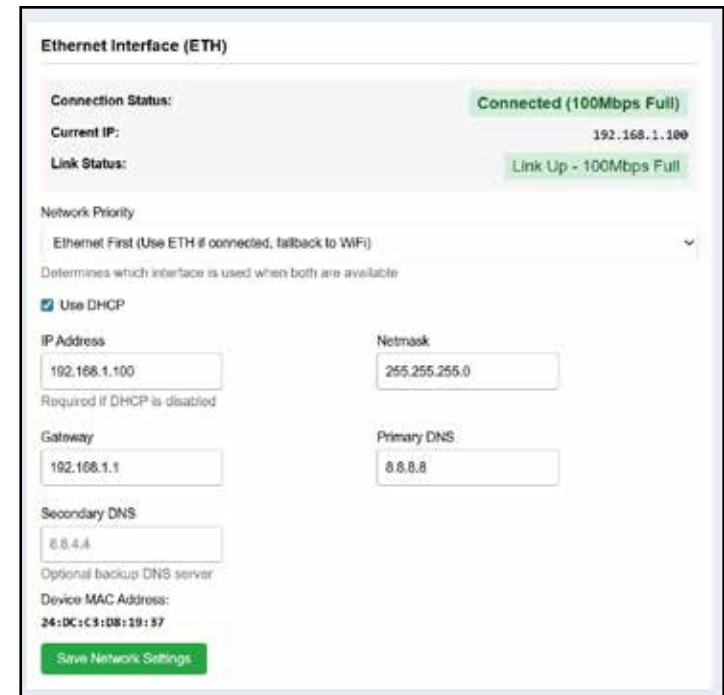
Step 2 Open Settings

Step 3 In the network section, configure:

- DHCP or Static IP
- Ethernet / Wi-Fi behavior
- Network Priority (Ethernet-first or Wi-Fi-first)

Step 4 Click `Save Network Settings`.

If both Ethernet and Wi-Fi are enabled, the selected priority determines which interface is used first.



Ethernet Interface (ETH)

Connection Status: **Connected (100Mbps Full)**

Current IP: 192.168.1.100

Link Status: **Link Up - 100Mbps Full**

Network Priority
Ethernet First (Use ETH if connected, fallback to WiFi)

Determines which interface is used when both are available

Use DHCP

IP Address: 192.168.1.100
Netmask: 255.255.255.0
Required if DHCP is disabled

Gateway: 192.168.1.1
Primary DNS: 8.8.8.8

Secondary DNS: 8.8.4.4
Optional backup DNS server

Device MAC Address: 24:DC:C9:08:19:37

Save Network Settings

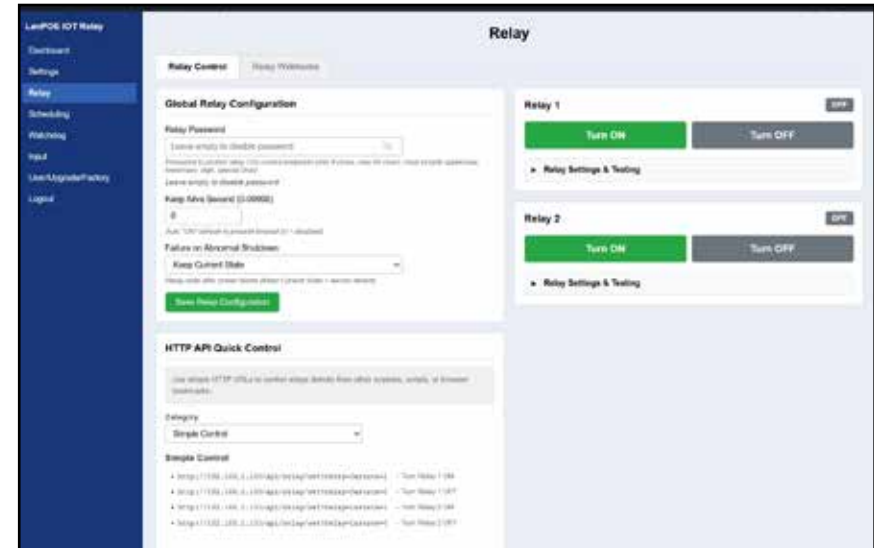
Basic Relay Control

Step 1 Open `Relay`.

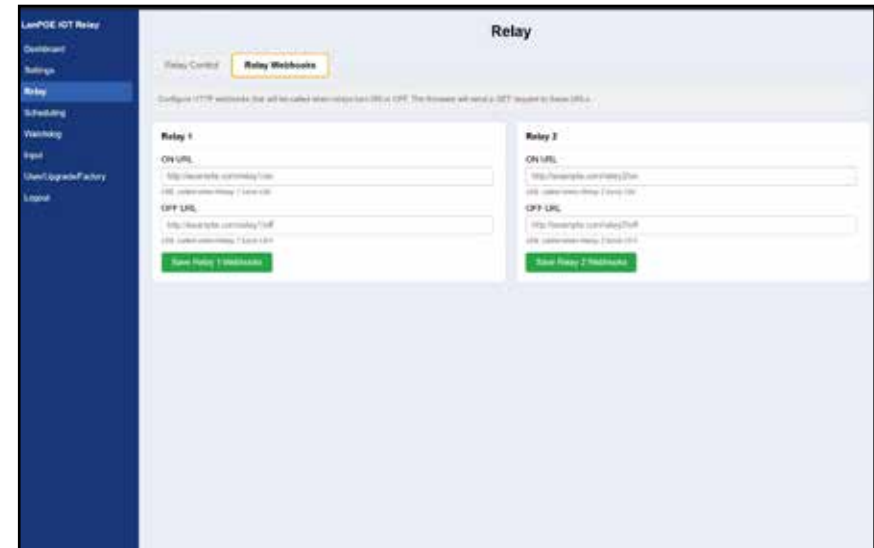
Step 2 Use the relay controls to set each output:

- ON/OFF
- Delay mode
- Momentary behavior (timed pulse)

Step 3 Confirm status from `Dashboard`.



You can also configure relay webhooks under `Relay` -> `Relay Webhooks` for external integrations.



HTTP URL Relay Triggering

New firmware uses REST-style relay URLs for simple HTTP control.

- Example: **`http://<device-ip>/api/relay/set?relay=0&state=1`**

Parameter meaning:

- Relay: relay index (0 = Relay 1, 1 = Relay 2)
- State: 0 = OFF, 1 = ON
- Password (optional): relay/API protection password when enabled

Additional action examples:

- Momentary pulse: **`http://<device-ip>/api/relay/set?relay=0&action=momentary&duration_s=10`**
- Delay ON: **`http://<device-ip>/api/relay/set?relay=0&action=delay_on&delay=30`**
- Delay OFF: **`http://<device-ip>/api/relay/set?relay=0&action=delay_off&delay=30`**

HTTP API Quick Control

Use simple HTTP URLs to control relays directly from other systems, scripts, or browser bookmarks.

Category
Simple Control

Simple Control

- `http://192.168.1.100/api/relay/set?relay=0&state=1` – Turn Relay 1 ON
- `http://192.168.1.100/api/relay/set?relay=0&state=0` – Turn Relay 1 OFF
- `http://192.168.1.100/api/relay/set?relay=1&state=1` – Turn Relay 2 ON
- `http://192.168.1.100/api/relay/set?relay=1&state=0` – Turn Relay 2 OFF

Firmware Upgrade

- Step 1** • Navigate to: <https://firmware.powerofpoe.com/>
- Step 2** • Copy Firmware URL
- Step 3** • Open `User/Upgrade/Factory`.
- Step 4** • Click `Firmware Upgrade`.
- Step 5** • Paste Firmware URL in `Upgrade URL`.
- Step 6** • Start upgrade and wait until completion.



Recommended:

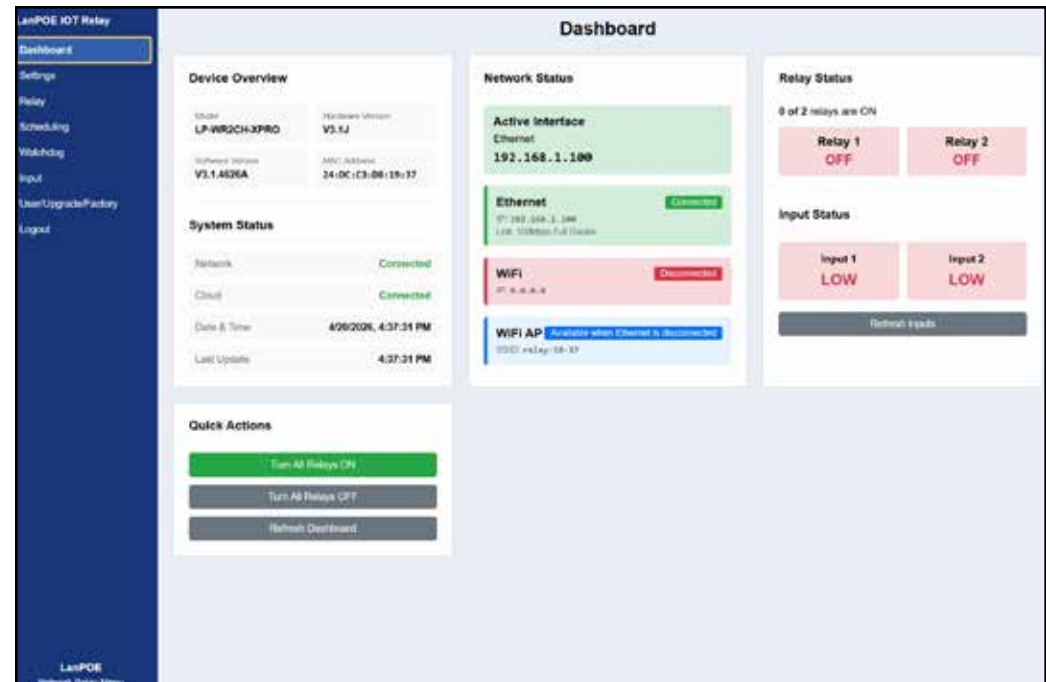
- Use HTTPS-hosted firmware URLs in production.
- Verify URL accessibility before starting upgrade.
- Use the firmware artifact: `web_relay_firmware.bin`

New Features in LP-WR2CH-XPRO Firmware

Expanded Navigation and Management UI

Main navigation now includes:

- `Dashboard`
- `Settings`
- `Relay`
- `Scheduling`
- `Watchdog`
- `Input`
- `User/Upgrade/Factory`



New Features in LP-WR2CH-XPRO Firmware

Network Priority and Failover

- Configurable network priority (Ethernet-first or Wi-Fi-first).
- Automatic fallback between Ethernet and Wi-Fi.

The screenshot displays three panels of network configuration settings:

- Ethernet Interface (ETH):** Shows connection status as 'Connected (100Mbps Full)', current IP as 192.168.1.100, and link status as 'Link Up - 100Mbps Full'. It includes a 'Network Priority' dropdown set to 'Ethernet First (Use ETH if connected, fallback to WiFi)', a checked 'Use DHCP' option, and fields for IP Address (192.168.1.100), Netmask (255.255.255.0), Gateway (192.168.1.1), and Primary DNS (8.8.8.8). A 'Save Network Settings' button is at the bottom.
- Wi-Fi Station Mode:** Features an unchecked 'Enable Wi-Fi Station' checkbox, SSID field (Your WiFi Network), Password field (WiFi Password), Security Mode dropdown (WPA2-PSK (Recommended)), a checked 'Use DHCP for Wi-Fi' option, and fields for Wi-Fi IP Address (192.168.1.101), Wi-Fi Netmask (255.255.255.0), and Wi-Fi Gateway (192.168.1.1). A 'Save Wi-Fi Station Settings' button is at the bottom.
- Wi-Fi AP Mode:** Features an unchecked 'Enable Wi-Fi AP' checkbox, AP SSID field (relay-19-37), AP Password field (masked), an unchecked 'Hidden SSID' checkbox, and fields for AP IP Address (192.168.7.1), AP Netmask (255.255.255.0), AP Gateway (192.168.7.1), and AP DNS (8.8.8.8). A 'Save Wi-Fi AP Settings' button is at the bottom.

New Features in LP-WR2CH-XPRO Firmware

Integrated Firmware Upgrade Workflow

- Direct upgrade flow in UI with `Firmware Upgrade` modal and `Upgrade URL`.
- OTA-capable firmware lifecycle for field updates.

New Features in LP-WR2CH-XPRO Firmware

Advanced Monitoring and Automation

- Multiple watchdog profiles (`Watchdog #1` to `Watchdog #9`).
- Scheduling and input-link automation from dedicated views.

The screenshot displays the configuration interface for three watchdog profiles. Each profile (Watchdog #1, #2, and #3) has a similar layout with the following fields:

- Target:** Watch IP (e.g., 192.168.1.1)
- Offline Action Type:** Dropdown menu (e.g., API Call, Relay Trigger, Both)
- Offline API URL:** Text input field (e.g., http://example.com/api/offline)
- Behavior / Mode:** Mode dropdown menu (e.g., Offline Reset)
- Relay Action:** Relay dropdown menu (e.g., ON, Relay 1)
- Timing:** Ping Interval (seconds), Ping Timeout (seconds), Ping Retry Times, Fail Retry Times, and Fail Retry Interval (seconds)
- Offline Action Time (HH:MM:SS):** Time input field (e.g., 00:02:00)

Each profile also includes a "Save Watchdog #X" button at the bottom. The interface includes explanatory text boxes for the Behavior / Mode section, detailing the actions taken when the target IP becomes unreachable.

New Features in LP-WR2CH-XPRO Firmware

Cloud Connectivity Option

- Cloud integration support available in firmware workflows (MQTT is still available in current UI where applicable).

New Features in LP-WR2CH-XPRO Firmware

Security and Network Improvements

- HTTPS support in server/upgrade flows.
- Modern Wi-Fi security mode support including WPA3.

For troubleshooting LanPoE Smart Networking Products, please reach out to our support team and provide detailed information for assistance.

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