

# 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
- Firmware upgrade
- New features in LP-WR2CH-XPRO firmware

## 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

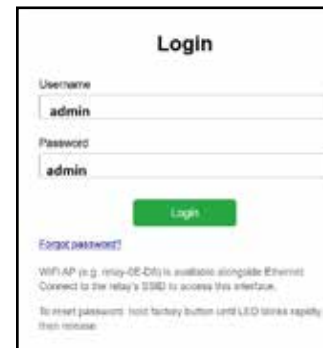
- 192.168.7.1 is only for the temporary setup AP, not the normal operating address.
- The normal device address is the DHCP IP assigned by your network.
- If Ethernet is connected, the DHCP IP is shown on the setup page.
- If Ethernet is not connected, use the setup AP page to configure Wi-Fi first.
- The setup AP remains available during onboarding and stays enabled until **\*\*Remote Control\*\*** is enabled.

## 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 form titled "Login". It contains two input fields: "Username" with the value "admin" and "Password" with the value "admin". Below the fields is a green "Login" button. Underneath the button, there is a link for "Forgot password?". At the bottom of the form, there is a note: "WiFi AP (e.g. rmlay-05-D01) is available alongside Ethernet. Connect to the relay's SSID to access this interface." and a warning: "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.

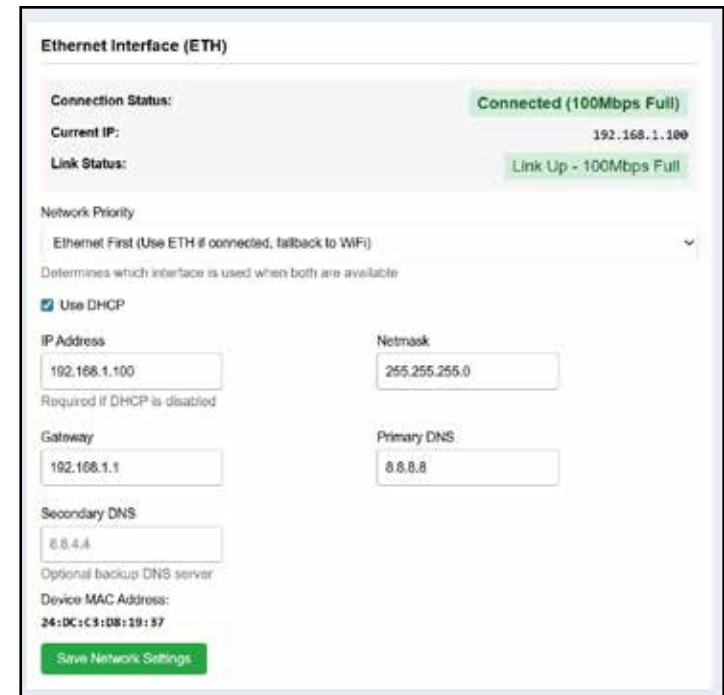
**Step 2** Open Settings

**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**

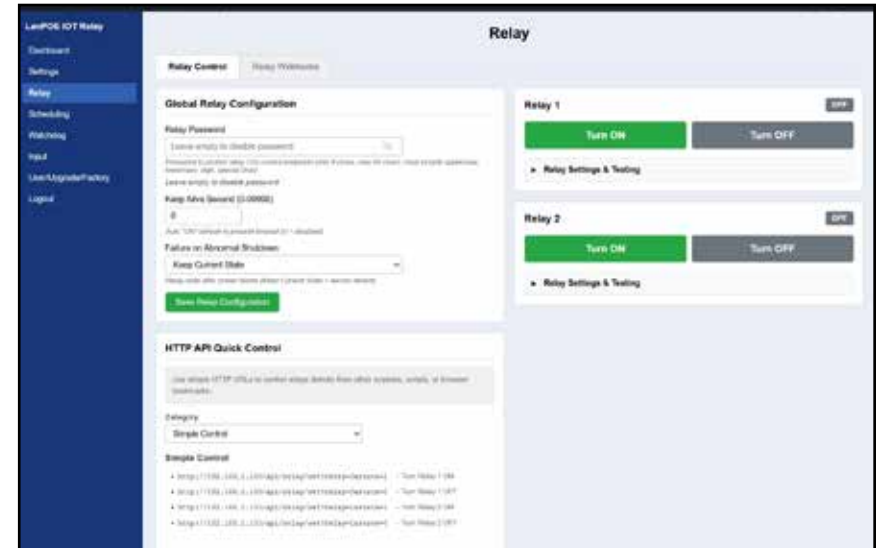
## Basic Relay Control

Step 1 Open `Relay`.

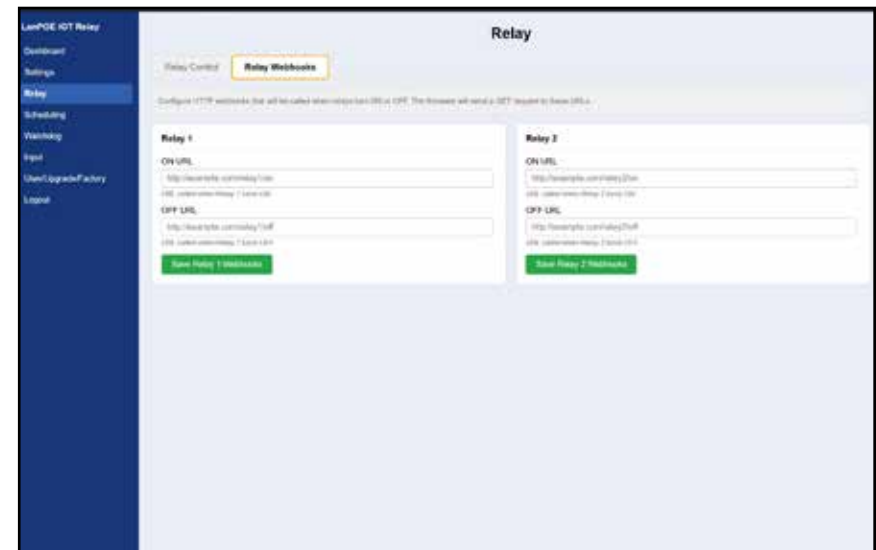
Step 2 Use the relay controls to set each output:

- 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:

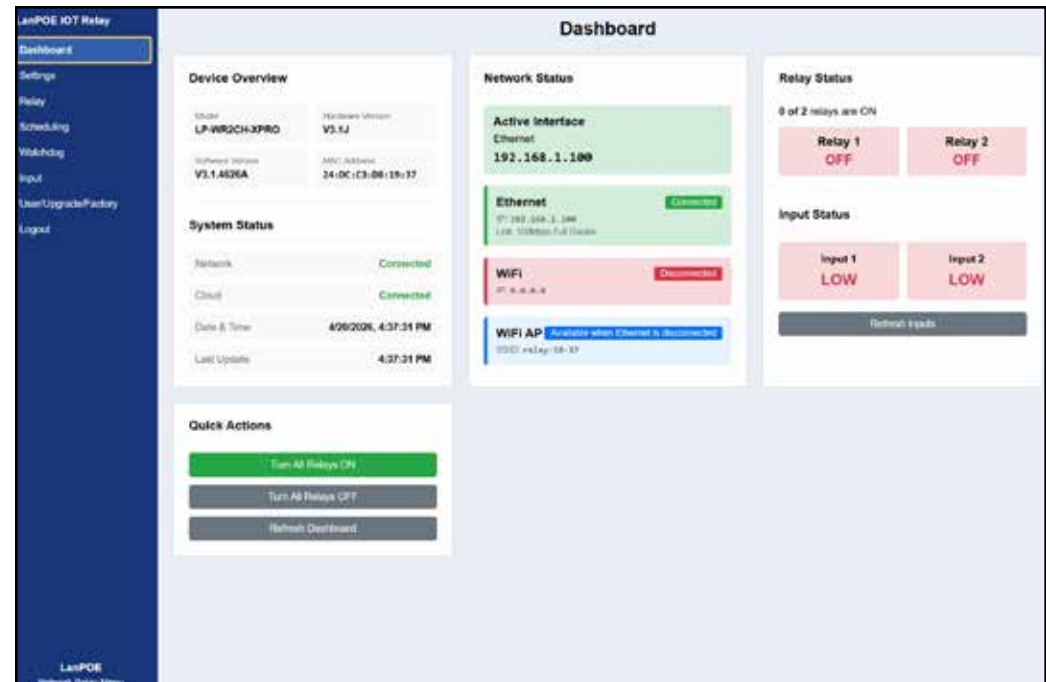
- Use HTTPS-hosted firmware URLs in production.
- Verify URL accessibility before starting upgrade.
- Use the firmware artifact: `web\_relay\_firmware.bin`

## 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 for network configuration:

- 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 (Your WiFi Network), Password (WiFi Password), Security Mode (WPA2-PSK (Recommended)), a checked 'Use DHCP for Wi-Fi' option, 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 (relay-19-37), AP Password (masked), an unchecked 'Hidden SSID' checkbox, 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

### Built-in App Remote Control

- `Enable Remote Control` option in `Settings`.
- Device pairing flow based on MAC address.

NOTE: Device will automatically disable WIFI AP Mode when Device is Remote Control

### App Remote Control

Enable Remote Control

*Allow this device to be controlled remotely through the web app  
Wi-Fi AP is currently disabled because Remote Control is enabled.*

[Click here to Apply for Beta →](#)

Use this Mac Address when Add Device:

**14335C49640C**

[Save App Remote Control](#)

### Sign In

EMAIL  
you@example.com

PASSWORD  
\*\*\*\*\*

[Sign In](#)

[No account? Sign up](#)

[Forgot password?](#)

CONNECTED ● DEVICE ONLINE ⚙️ Relay2ch-1934 240CC0B1934

[Home](#) [Webhooks](#) [Schedule](#)

**Door 1** ● LOW ⚙️

TRIGGER (5s)

[Turn ON](#) [Turn OFF](#)

**Door 2** ● LOW ⚙️

TRIGGER (5s)

[Turn ON](#) [Turn OFF](#)

Input webhooks

[BACK TO DEVICES](#)

## 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 'Target' field set to '192.168.1.1' and a 'Watch IP' field also set to '192.168.1.1'. The 'Offline Action Type' is set to 'API Call' for Watchdog #1 and #2, and 'Both' for Watchdog #3. The 'Offline API URL' is 'http://example.com/outline'. The 'Behavior / Mode' is set to 'Offline Reset'. The 'Relay Action' is 'ON' and the 'Relay' is 'Relay 1'. The 'Timing' section includes 'Ping Interval (seconds)' set to 10, 'Ping Timeout (seconds)' set to 1, 'Ping Retry Times' set to 12, 'Fail Retry Times' set to 3, and 'Fail Retry Interval (seconds)' set to 240. The 'Offline Action Time (HH:MM:SS)' is set to 00:02:00. A blue callout box in the 'Behavior / Mode' section of each profile contains the following text: 'When the target IP becomes unreachable, the selected offline action runs. Relay Trigger: relay turns OFF then ON after Offline Action Time. API Call: Offline API URL is called once per offline transition. Both: perform both actions.'

## 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.

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

**Phone:**  
877-725-8869

**Email:**  
[sales@lanpoe.com](mailto:sales@lanpoe.com)