

CL4R TOUCH

4.3" Touchscreen for Pool Automation



USER GUIDE

TOUCHSCREEN CONTROL ◆ CLOUD CONNECTED ◆ UNIVERSAL COMPATIBILITY

CLYRPOOL.COM

DOCUMENT INFORMATION

Revision History

Document Title	Clyr Touch User Guide
Product	Clyr Touch — 4.3" Touchscreen
Document Number	CLR-DOC-TOUCH-001
Classification	External — Customer Facing

REVISION LOG

REV	DATE	AUTHOR	DESCRIPTION
1.0	2026-02-25	Clyr Engineering	Initial release
1.1	—	—	—
1.2	—	—	—

Note: For the latest version of this document and additional resources, visit the Clyr Documentation Portal at clyrpool.com/docs

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SECTION 01

Introduction

The Clyr Touch is a 4.3-inch touchscreen device designed for pool and spa automation. It gives technicians and homeowners direct, hands-on control of pool equipment — pumps, heaters, salt chlorine generators, lights, valves, sensors, and more.

Key Features

- Full-color capacitive touchscreen interface
- Controls pool equipment via RS-485/Modbus (**Controller Mode**) or mirrors a remote Clyr controller (**Screen Mode**)
- WiFi connectivity for cloud sync, remote monitoring, and over-the-air firmware updates
- Auto Mode for day-to-day automated operation and Service Mode for technician maintenance
- Compatible with major equipment brands: **Hayward, Pentair, Jandy**, and more

Tip: For additional resources, visit the Clyr Documentation Portal at clyrpool.com/docs

Operating Modes

The Clyr Touch operates in one of two modes:

Controller Mode (Master)

- Directly controls pool equipment through RS-485/Modbus connections
- Add, edit, and remove equipment on this device
- Cloud data sync for remote monitoring and control via the Clyr Mobile app

Screen Mode (Slave)

- Acts as a remote display for a separate Clyr controller (the master device)
- Mirrors the controller's equipment state via serial/UART connection
- Equipment management is handled on the controller, not this device

SECTION 01/1

Technical Specifications

The following electrical and interface specifications apply to the Clyr Touch hardware module.

SPECIFICATION	VALUE
Power Input	9-24 V DC via screw terminal
Current Consumption	Typical: about 80 mA, minimum: 20 mA, maximum: 140 mA

Interfaces

- RS-485
- USB
- Wi-Fi
- Bluetooth via internal antenna

Note: Use a regulated DC power source and verify terminal polarity before energizing the unit.

SECTION 02

Setting Up Clyr Touch

2a. Powering On

Connect the Clyr Touch to power. The device boots through a splash screen and loads into the main pool control interface.

For initial install wiring, connect the DC source to the screw terminal as shown below.



Connect the + lead from the 9-24 V DC source to **V+**, and connect the return lead to **GND**.

Warning: Verify polarity before power-up. Reversed polarity can damage the device.

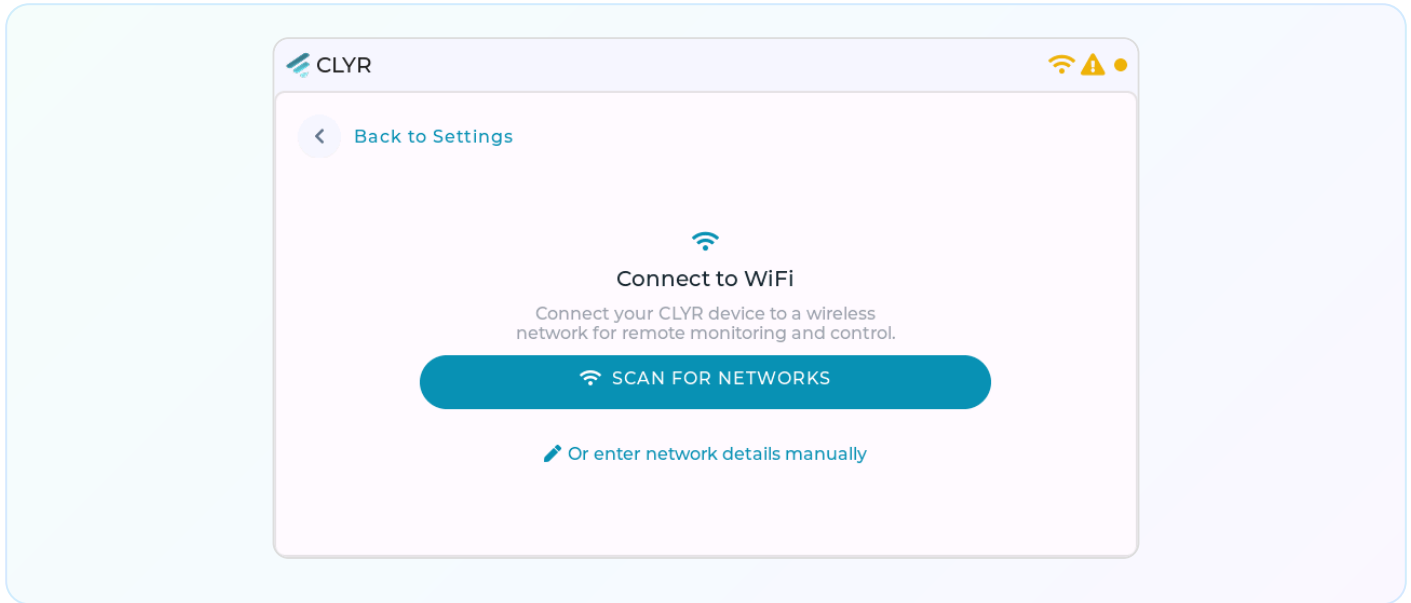
2b. Controller Mode Setup

In Controller Mode, the Clyr Touch connects directly to your WiFi network and registers with the Clyr cloud for remote monitoring and control.

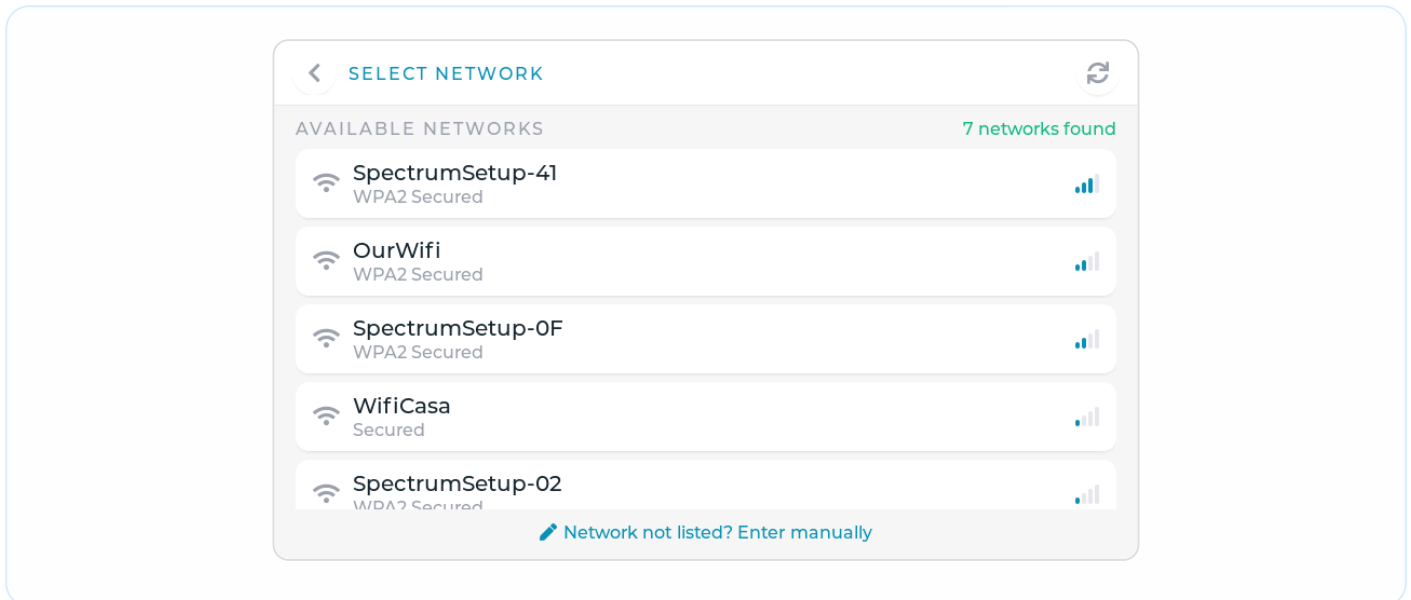
Connecting to WiFi

WiFi is required for cloud sync, remote monitoring, and firmware updates.

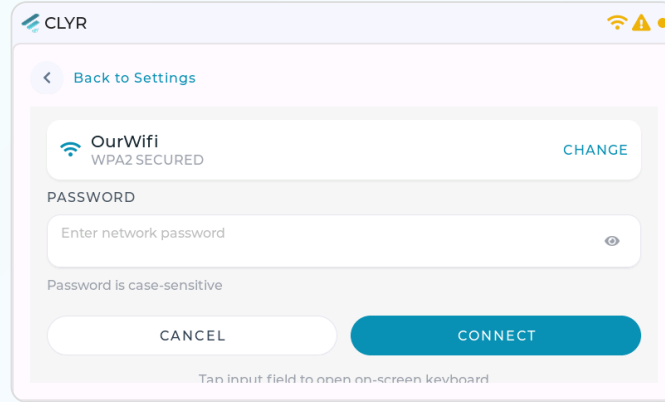
1. Tap the **gear icon** (top-right) to open **Settings**
2. Tap **WiFi Configuration**



- On the setup screen, tap **SCAN FOR NETWORKS**
Alternatively, tap "Or enter network details manually" to type in your SSID and password directly



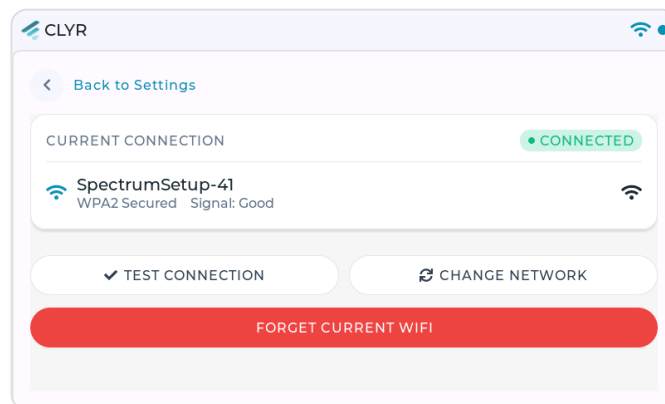
- The scan modal displays available networks with SSID, security type, and signal strength. Tap your network to select it.
- Enter the WiFi password on the password entry screen
 - Use the eye icon to toggle password visibility
 - Password is case-sensitive



6. Tap **CONNECT**
7. Wait for the connection (a connecting animation is shown)
8. The success screen displays **"Successfully Connected!"**
9. Tap **CONTINUE** to proceed

After connecting, the connected view shows:

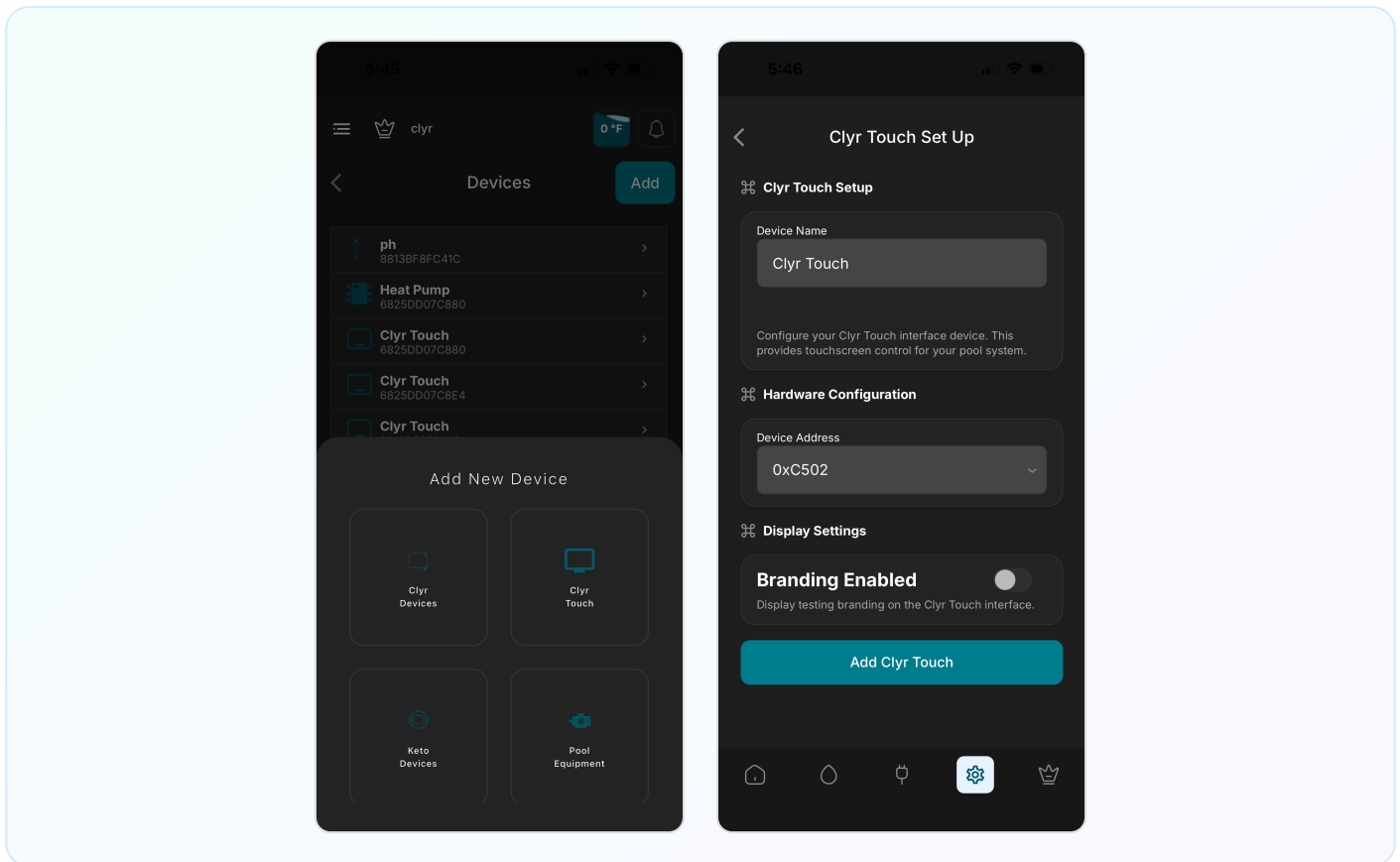
- Your network name (SSID) and security type
- Signal strength (Excellent, Good, Fair, or Weak)
- **TEST CONNECTION** — verify the connection is working
- **CHANGE NETWORK** — connect to a different network
- **FORGET CURRENT WIFI** — remove saved credentials



Note: WiFi credentials are saved and persist across reboots.

Registering via Clyr Mobile App

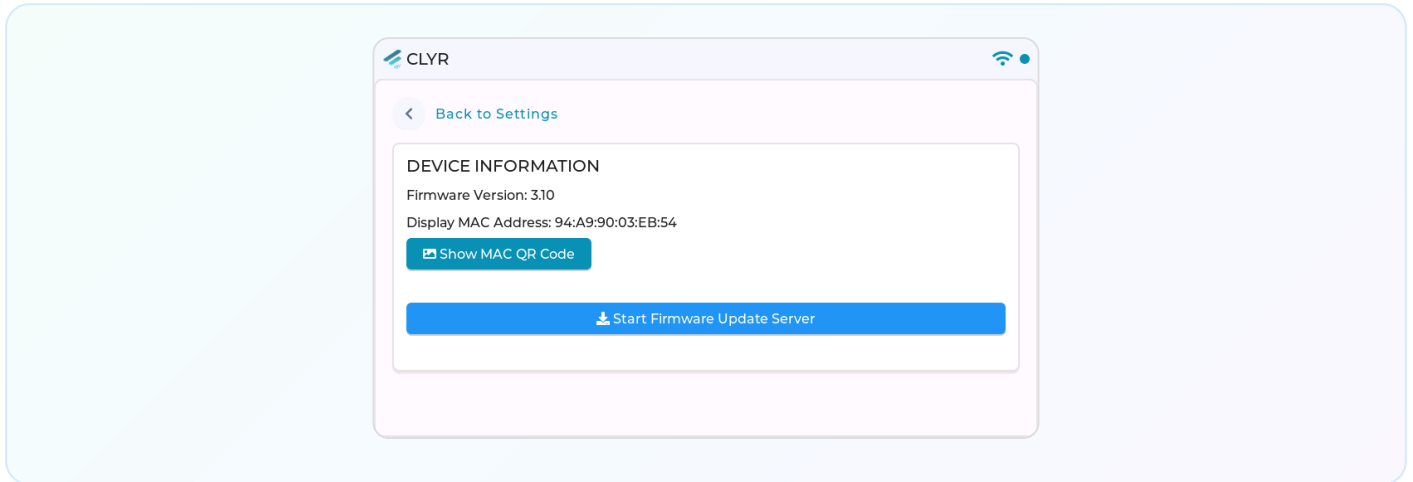
1. Download **Clyr Mobile** from the App Store or Google Play
2. Open the app and tap **Settings**
3. Tap **Devices**
4. Tap **Add**
5. Select **Clyr Touch**
6. Follow the on-screen instructions in the app to complete registration



Viewing Device Information

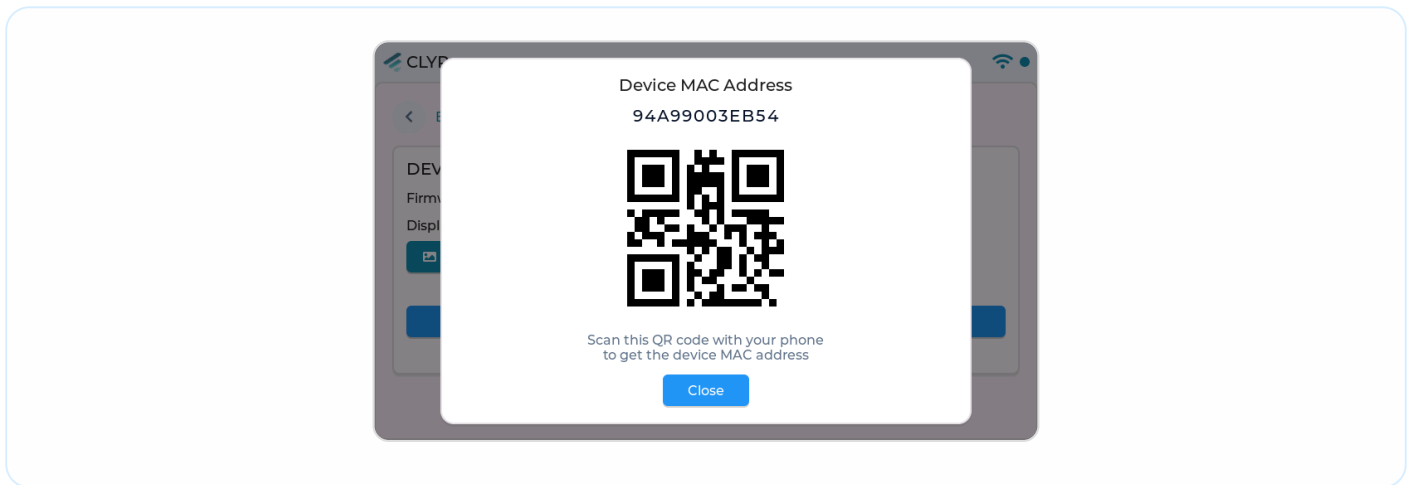
Device information is available in both Controller Mode and Screen Mode.

1. Tap the **gear icon** > **Device Information**
2. View details including:
 - Firmware version
 - MAC address
 - Controller firmware version
 - Controller ID



Showing the MAC QR Code

1. From the Device Information screen, tap **Show MAC QR**
2. A QR code encoding the device MAC address appears
3. This can be scanned from the Clyr Mobile app to identify the device for registration



2c. Screen Mode Setup

If your Clyr Touch is operating in **Screen Mode** (as a display for an existing Clyr controller), the setup process is different from Controller Mode. You will need to configure your controller first, then pair the Clyr Touch to it via the mobile app.

Step 1: Set Up Your Controller

Follow the [Clyr Installation Guide — Connect Your Controller](#) to complete the initial setup and WiFi configuration on your controller device.

Step 2: Pair the Clyr Touch in the Mobile App

Once your controller is set up, use the Clyr mobile app to add the Clyr Touch as a device on that controller:

1. Open the Clyr mobile app and navigate to **Settings**
2. Tap **Devices**
3. Tap **Add**
4. Select **Equipment**
5. Select the **controller** you want to add the Clyr Touch to (if you have multiple controllers)
6. Select the **Clyr Touch** from the device list
7. Configure the **address** for the Clyr Touch
8. Tap **Save** to complete pairing

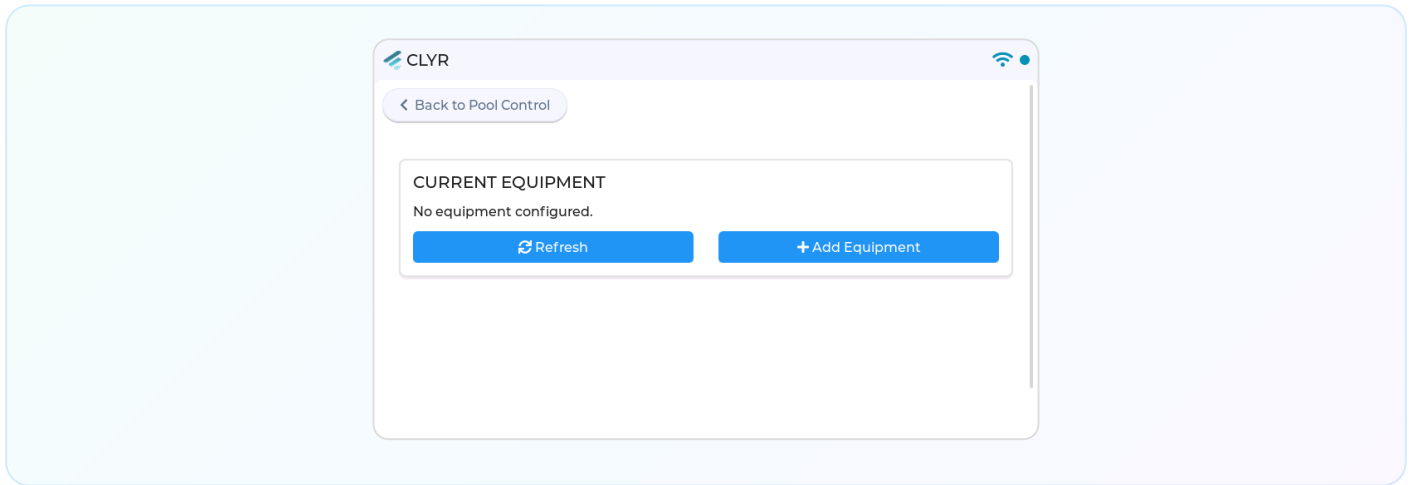
Note: After pairing, the Clyr Touch will automatically mirror the controller's equipment configuration and pool data.

SECTION 03

Adding Equipment (Controller Mode)

In Controller Mode, you add and manage equipment directly on the Clyr Touch.

1. Tap the **equipment button** (blue button on the right side of the home screen)
2. Tap the **+** (Add) button



3. In the add equipment modal, select an **Equipment Type** from the dropdown:
Pump, Salt Cell, Valve, I/O, Sensor, Dosing, Light
4. Select an **Equipment Subtype** from the dropdown (options change based on type)

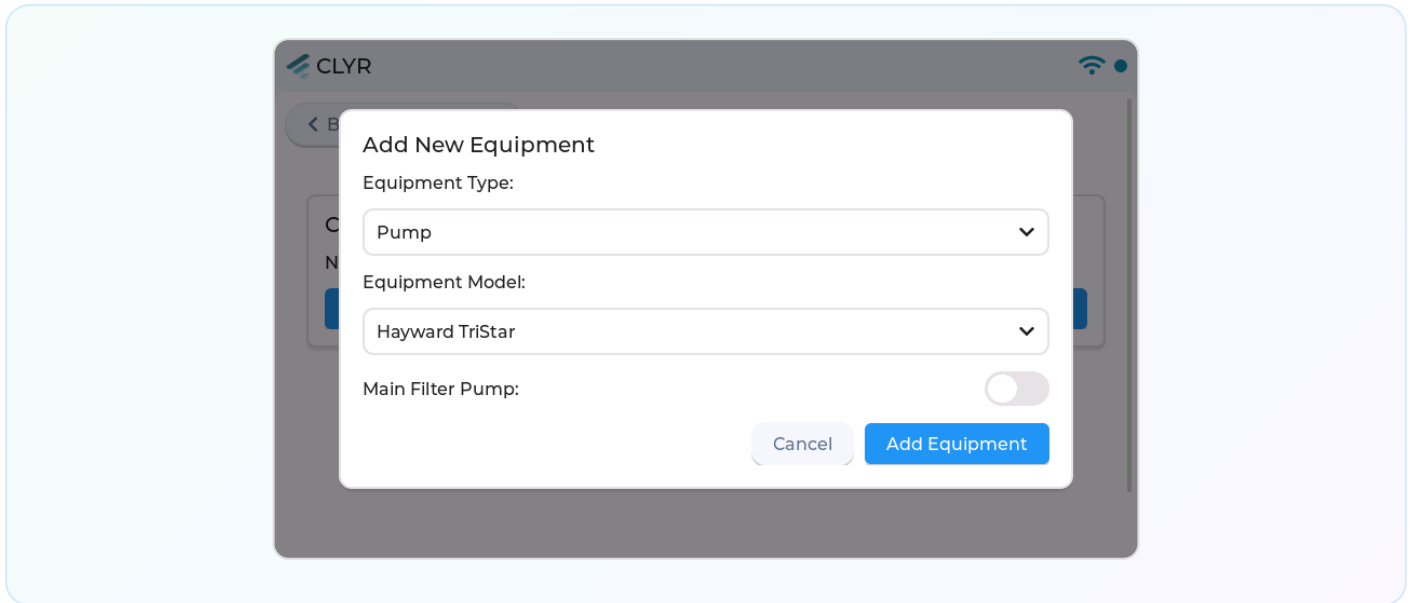
Equipment Types & Subtypes:

TYPE	AVAILABLE SUBTYPES
Pump	Hayward TriStar, Hayward EcoStar, Pentair IntelliFlo, Jandy FloPro, Black&Decker, Pentair IntelliFlo VSF, Waterway VSP
Salt Cell	Hayward AquaRite, Pentair IntelliChlor, Jandy AquaPure
Valve	Standard Valve
I/O	Terminal Block Relay, Heater Control, Chiller Control
Sensor	Pressure Transmitter, ORP Sensor, pH Sensor
Dosing	CO2 Doser
Light	Jandy Watercolors, Pentair Intellibrite, Hayward Colorlogic, DMX Light, Spa Electrics Multiplus, Hayward Universal Colorlogic, Backlight

- **For Pumps:** Toggle the **Main Pump** switch if this is the primary circulation pump

- For I/O devices: Select the **Aux Channel** (Aux 1–5 or Main)

5. Tap **Save**



SECTION 04

Adding Equipment (Screen Mode)

In Screen Mode, equipment is managed on the controller (master device), not on this screen.

- The Clyr Touch in Screen Mode mirrors the controller's equipment configuration automatically
- To add equipment, perform the steps from [Section 3](#) on the controller device instead

SECTION 05

Editing and Deleting Equipment

1. Tap an equipment item in the equipment list
2. Choose **Edit** or **Delete**
 - **Edit:** Opens a modal pre-populated with the current settings. Modify any fields and tap **Save**.
 - **Delete:** A confirmation dialog appears. Confirm to permanently remove the equipment.

SECTION 06

Operating Modes: Auto vs Service

Auto Mode (Default)

Auto Mode is the standard operating mode for day-to-day use:

- Schedules and automation programs run equipment automatically (configure via Clyr Mobile app or cloud portal)
- The home screen shows status cards: water temperature, pH, ORP, salt cell output, pump RPM, power consumption
- Tap any status card to open a detailed equipment overlay

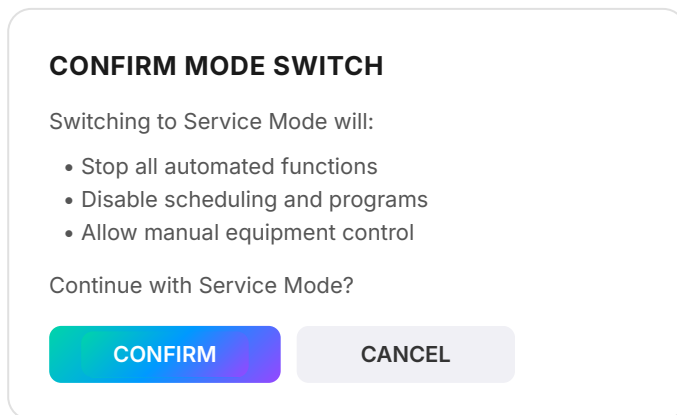
Service Mode

Service Mode is for technicians performing maintenance or troubleshooting:

- All automated functions stop
- Scheduling and programs are disabled
- Manual control of each piece of equipment individually

Switching to Service Mode

1. Tap the **mode toggle** on the Auto tab
2. A confirmation dialog appears:



3. Tap **CONFIRM** to proceed, or **CANCEL** to stay in Auto Mode

In Service Mode, the home screen displays manual control cards with toggle switches for each configured device.

Returning to Auto Mode

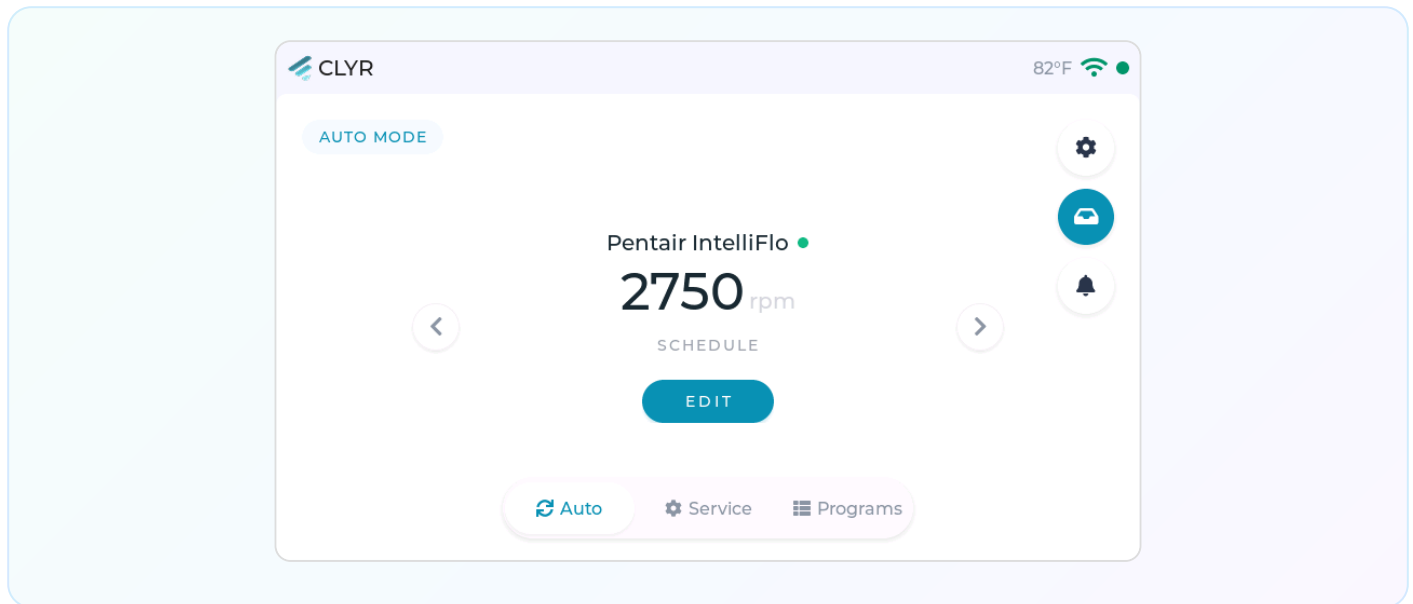
1. Tap the mode toggle again
2. Confirm to resume automated operation (scheduling and programs re-enable)

SECTION 07

Controlling Equipment

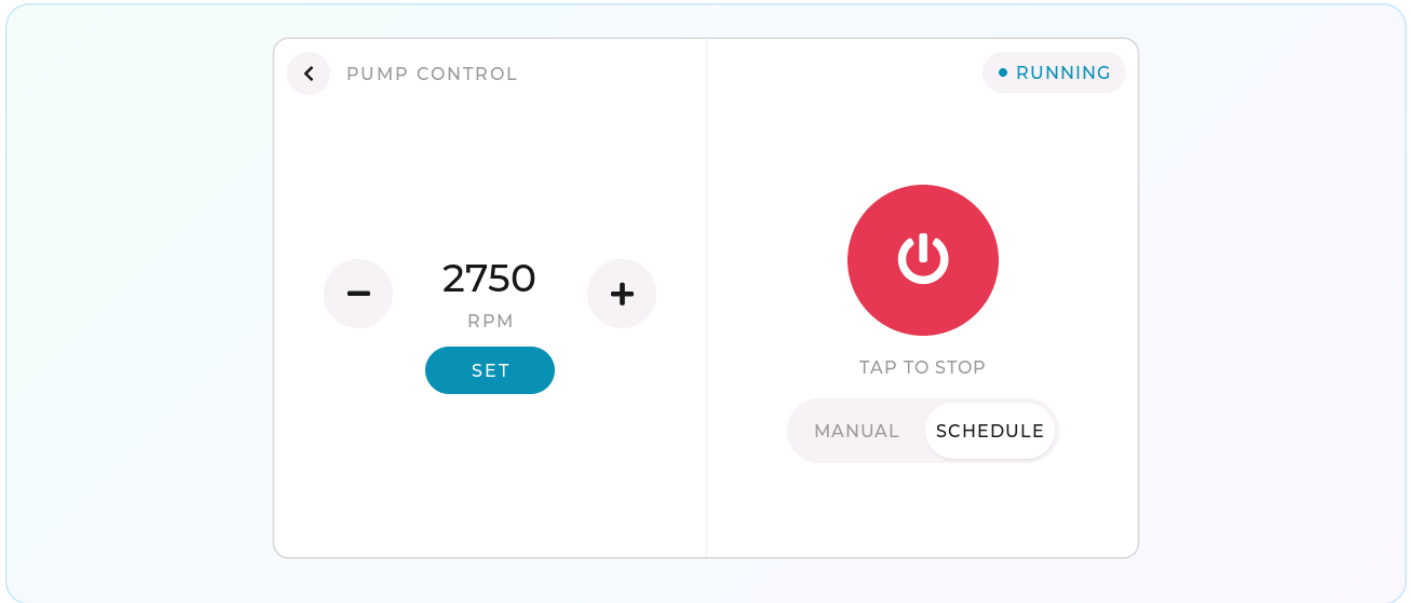
Navigating Equipment on the Home Screen

Your configured equipment is displayed on the home screen as a card showing the device name, live status, and current value (e.g., RPM, temperature). Use the **<** and **>** arrow buttons on either side to cycle through your equipment. Tap **EDIT** to open the control screen for that device. The bottom tabs — **Auto**, **Service**, and **Programs** — let you switch between operating views.



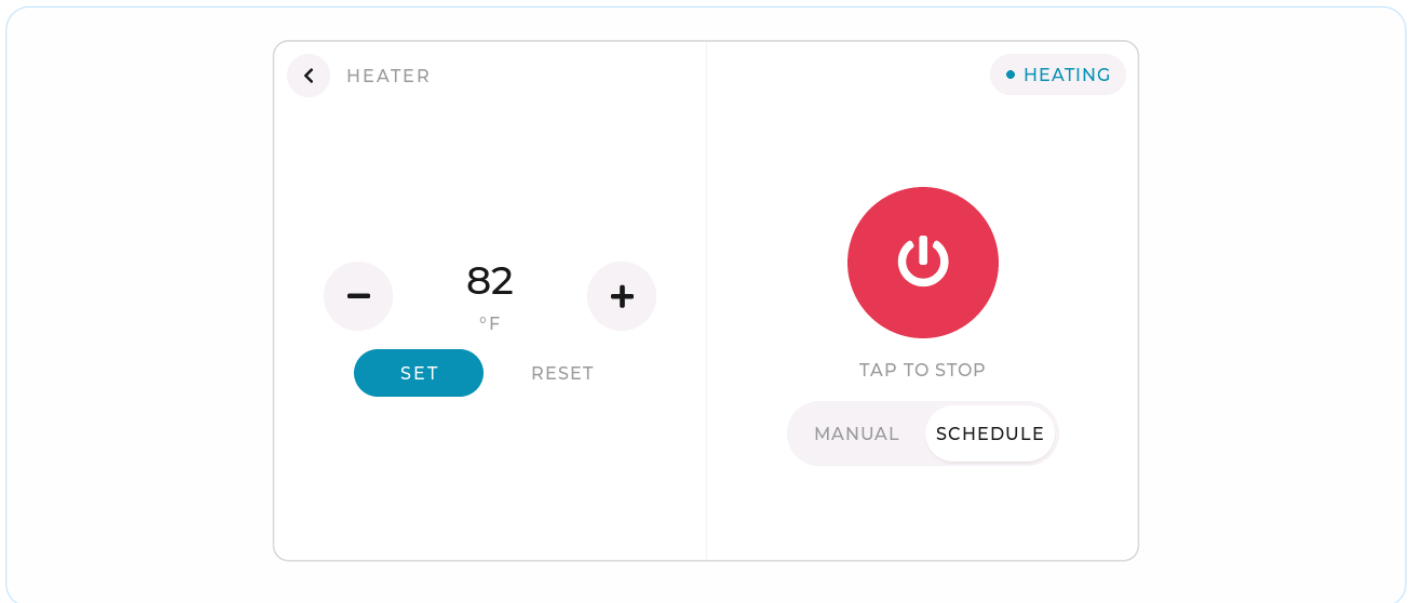
Pumps

Tap the pump card to open the control screen. Adjust RPM with the **- / +** buttons, then tap **SET** to apply. Use the power button to start or stop the pump. Switch between **MANUAL** and **SCHEDULE** mode. The status badge (top-right) shows the current state (e.g., RUNNING).



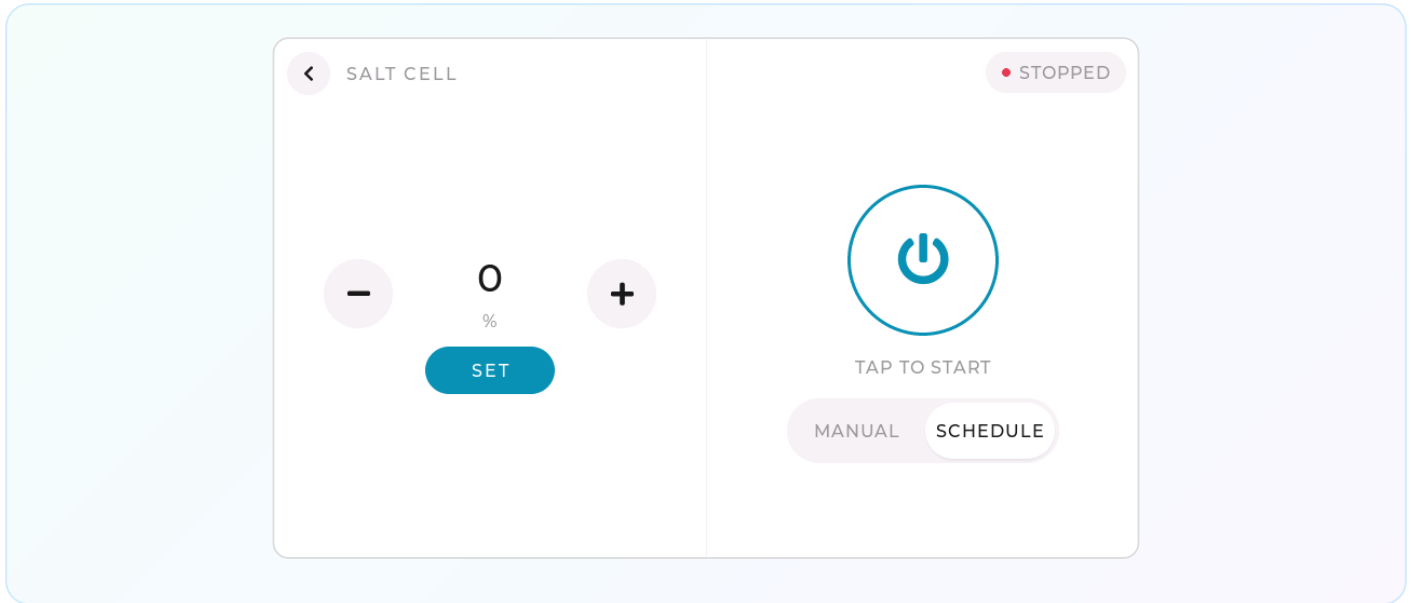
Heaters

Tap the heater card to open the control screen. Adjust the target temperature (°F) with the **-** / **+** buttons, then tap **SET** to apply (or **RESET** to revert). Use the power button to start or stop heating. Switch between **MANUAL** and **SCHEDULE** mode. The status badge shows the current state (e.g., HEATING).



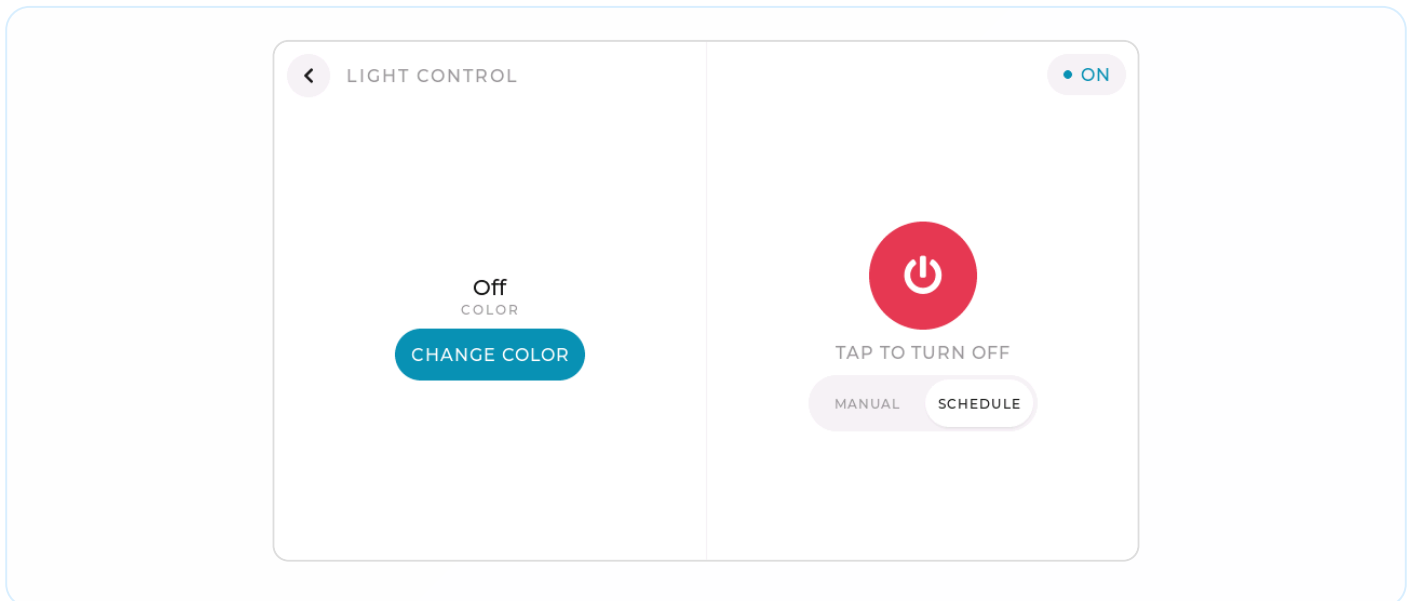
Salt Cells

Tap the salt cell card to open the control screen. Adjust the output percentage (%) with the **-** / **+** buttons, then tap **SET** to apply. Use the power button to start or stop the cell. Switch between **MANUAL** and **SCHEDULE** mode. The status badge shows the current state (e.g., STOPPED).



Lights

Tap the light card to open the control screen. The current color is displayed with a **CHANGE COLOR** button to select a preset. Use the power button to turn the light on or off. Switch between **MANUAL** and **SCHEDULE** mode. The status badge shows the current state (e.g., ON).



Manual vs. Schedule Mode

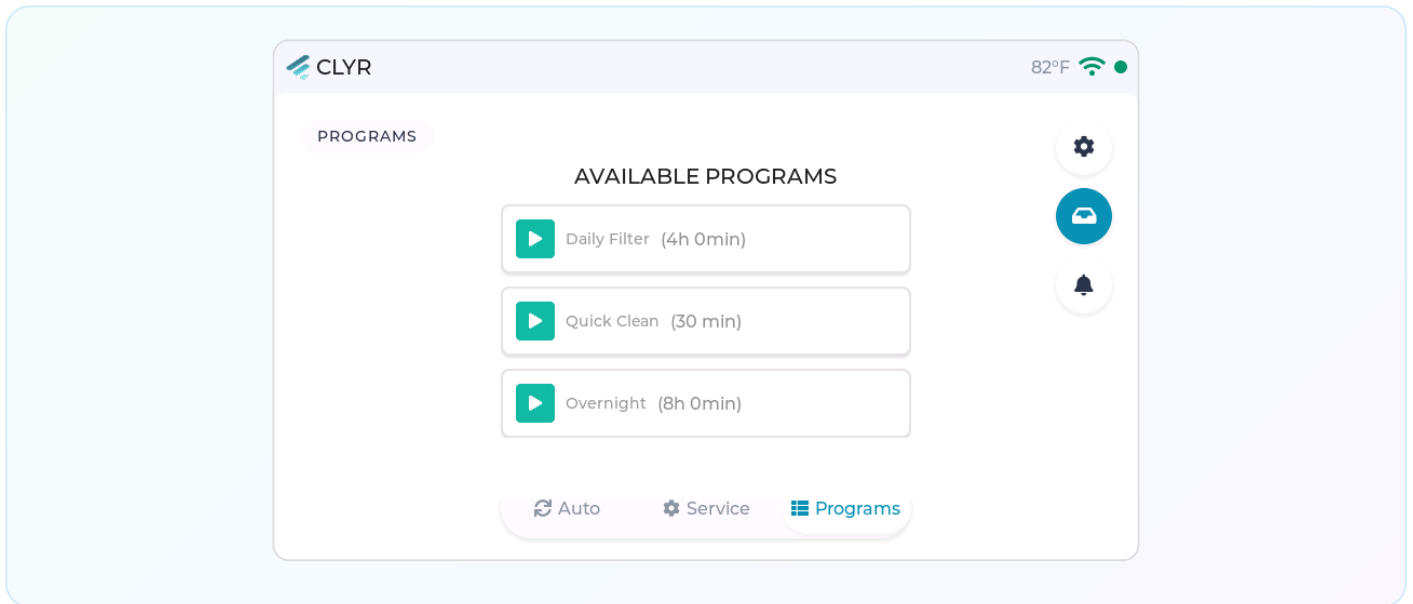
Each equipment control screen includes a **MANUAL** / **SCHEDULE** toggle. In **Manual** mode, you control the equipment directly from the Clyr Touch. In **Schedule** mode, the equipment follows automated schedules. Schedules are created and edited through the **Clyr Mobile** app — they cannot be configured on the Clyr Touch itself. The touch screen will display the active schedule and allow you to override it temporarily, but any schedule changes must be made in the mobile app.

Tip: To set up or modify schedules, open the Clyr Mobile app and navigate to the equipment's schedule settings.

SECTION 08

Programs

- View configured automation programs on the **Programs** tab
- Tap **Play** to activate a program, **Stop** to deactivate
- Programs run equipment through predefined sequences (e.g., a specific RPM for a set duration)



SECTION 09

Settings Overview

Open Settings by tapping the **gear icon** in the top-right corner. Available options:

SETTING	DESCRIPTION
WiFi Configuration	Connect to or manage WiFi networks
Device Information	Firmware version, MAC address, pairing QR codes
Mobile Control	Mobile app pairing and control settings
Operating Mode	Switch between Controller Mode and Screen Mode
Cloud Sync	Manually trigger data or configuration sync with the cloud
Display Settings	Screen timeout, temperature unit (°C / °F), display layout (Circle / Grid)
System Actions	Restart device, reset configuration, clear storage

Checking or Switching Operating Modes

To view or change your operating mode, tap **gear icon** > **Operating Mode**. The screen displays your current mode (Controller or Screen). To switch, tap the turquoise **"Switch to [other mode]"** button, then confirm in the dialog. The device will restart and apply the new mode.

Mobile Pairing QR Code (Guest Access)

The pairing QR code lets guest users control the device from the web version — no account required.

1. From the **Settings** screen, tap **Mobile Control**, then tap **Show Pairing QR**
2. A QR code with a 6-character OTP code appears
3. Scan the QR with your phone camera to open the web version and start controlling the device

Note: The code expires in 30 minutes. Close and reopen the dialog to generate a new one. The pairing QR can also be accessed from the home screen pairing button (QR icon), if enabled.



SECTION 10

Status Bar

The top header bar provides at-a-glance status information:

- **Branding logo** — displayed on the left
- **Water temperature** — current reading (when available)
- **WiFi icon** — connection status:
 - Normal icon: WiFi connected
 - Icon with warning symbol: no WiFi connection
- **Cloud status dot** — cloud connectivity:
 - **Yellow** — no WiFi connection
 - **Green** — WiFi connected, cloud not connected
 - **Turquoise** — WiFi and cloud both connected

SECTION 11

Cloud Connectivity

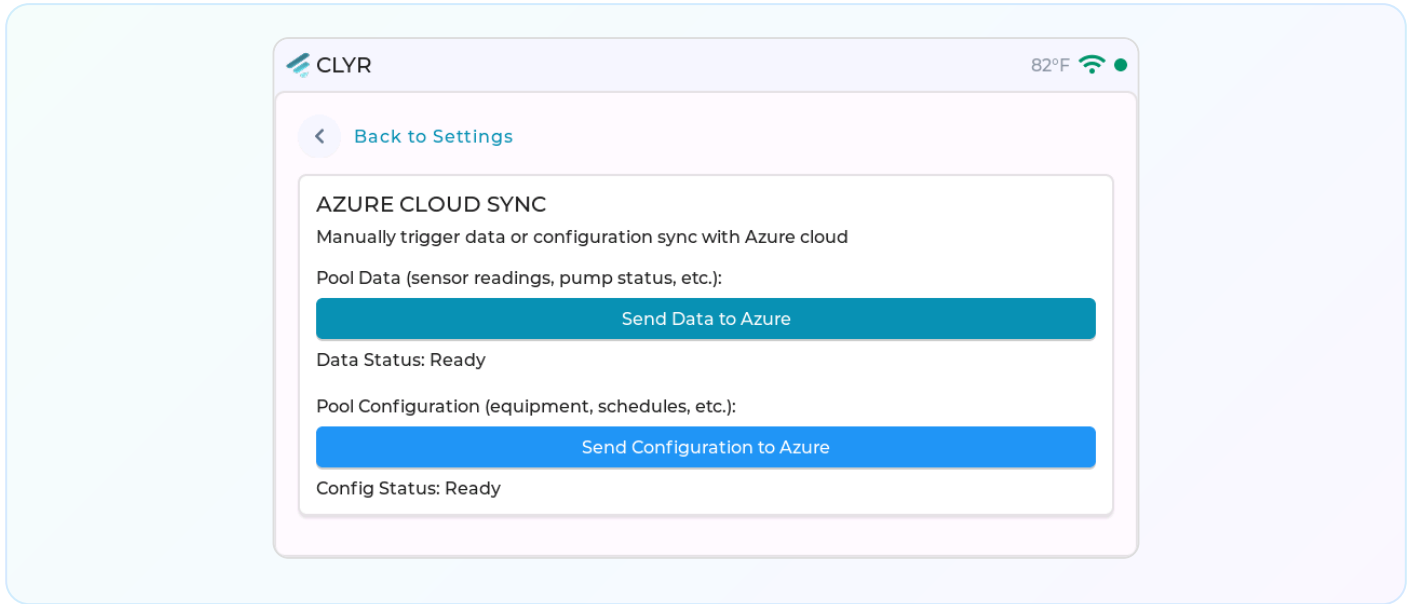
The Clyr Touch syncs equipment state and configuration with the cloud, enabling:

- Remote monitoring and control via the Clyr Mobile app
- Schedules and automation rules managed from anywhere
- Real-time equipment status updates (device-to-cloud and cloud-to-device)

Checking Cloud Status

- The status bar dot (top-right) indicates connectivity at a glance

- For details, go to **Settings** > **Cloud Sync**
- From the Cloud Sync screen you can manually trigger data or configuration sync



SECTION 12

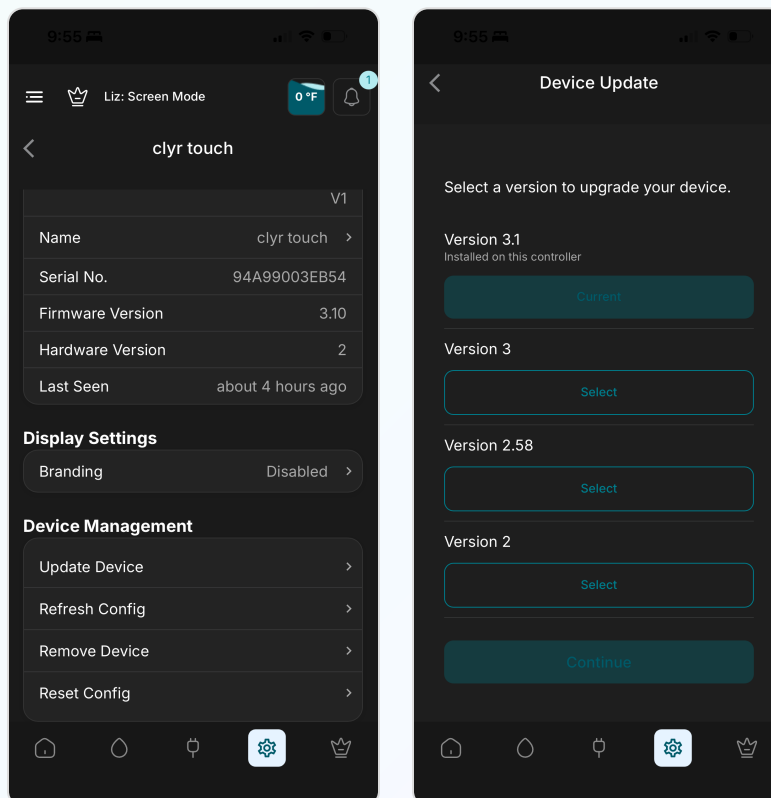
Firmware Updates (OTA)

Firmware updates for the Clynr Touch are performed through the **Clynr Mobile** app. Updates include bug fixes, new features, and expanded equipment support.

How to Update:

1. Ensure the Clynr Touch is connected to WiFi
2. Open the **Clynr Mobile** app
3. Navigate to **Devices**
4. Select your Clynr Touch device
5. Tap **Update Device**
6. Select the firmware version you want to install
7. Wait for the update to complete — **do not leave the screen** during the update process
8. The device will reboot automatically once the update is finished

Important: Do not close the app or navigate away while the update is in progress. The device will restart on its own when the update is complete.



SECTION 13

Troubleshooting

WiFi Won't Connect

- Double-check the password (it is case-sensitive)
- Try **FORGET CURRENT WIFI** from the connected view and reconnect from scratch
- Move the device closer to your router if signal strength is Weak or Fair
- Use **TEST CONNECTION** to verify an existing connection

Equipment Not Responding

- Verify RS-485/Modbus wiring connections
- Confirm the correct equipment type and subtype are selected
- For I/O devices, ensure the correct Aux channel is assigned

Pairing QR Code Expired

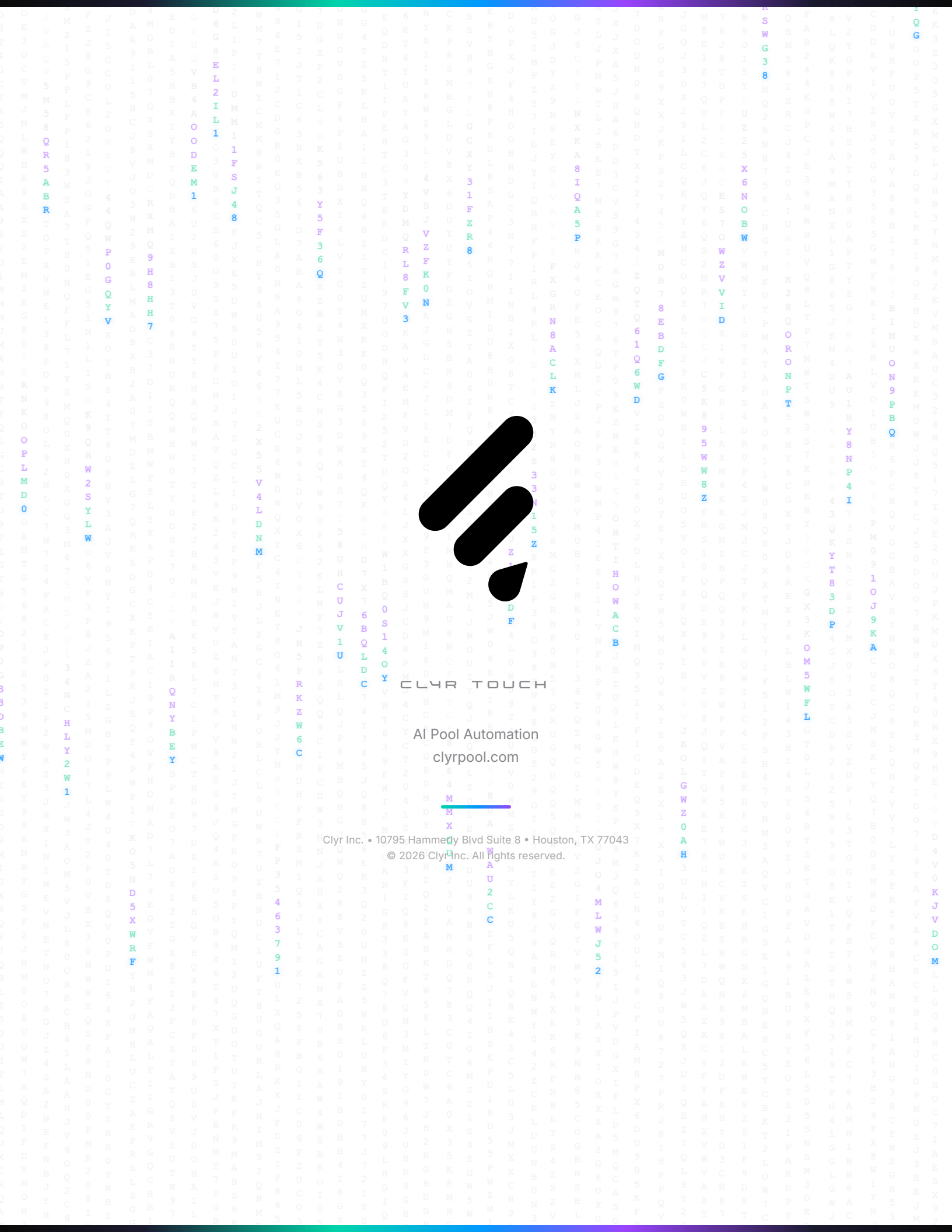
- Close the pairing dialog and reopen it to generate a fresh 6-character OTP code
- Codes expire after 30 minutes

Mode Switch Not Working

- Ensure the device has WiFi connectivity — cloud sync may be needed after restart
- If the confirmation dialog does not appear, try restarting the device from **Settings** > **System Actions**

Cloud Not Connecting

- Verify WiFi is connected (check the WiFi icon in the status bar)
- Go to **Settings** > **Cloud Sync** and manually trigger a sync
- Cloud sync for data and configuration is only available in **Controller Mode**



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