

SYNCHRONIZED NTP CLOCK

USER GUIDE



Developed by



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1. Introduction

Introducing our Synchronize Clock – a perfect blend of aesthetics and functionality that brings accurate time measurement to the center of your environment. This clock is more than a mere timepiece; it's a statement of sophistication and efficiency.

Key Benefits of Synchronize Clock:

- Can solve the time-related compliance issue
- Specially designed for pharmaceuticals environment
- No master devices needed for time management
- Can take time from any NTP server
- 24/7 uninterrupted clocking operation
- Can add unlimited clocks in a network
- Easy configuration and installation
- Password protected

Synchronized Accuracy: Our clock is equipped with cutting-edge technology that ensures synchronization with the most precise time references. Say goodbye to lagging schedules and missed deadlines.

Seamless Integration: Designed for versatility, our Synchronize Clock seamlessly integrates into various environments, from corporate offices and healthcare facilities to educational institutions and manufacturing plants.

Easy Readability: The large, clear display makes it effortless to read the time from a distance, ensuring everyone in your space stays on track.

Durable Design: Crafted with high-quality materials, this clock is built to last. Its durability is matched only by its timeless aesthetic, making it a long-lasting addition to any setting.

Upgrade to our Synchronize Clock and experience the future of precise timekeeping. Elevate your space, improve efficiency, and make a lasting impression with a clock that defines punctuality and style.

This guide will help you set up and use the clock efficiently.

2. Product Overview



Appearance:

- The top six digits display time in **24-hour format as well as 12-hour format** with AM/PM indicators on the right side.
- The bottom eight digits displays the **date**.
- The side panel includes **three LED lights, two buttons, and a power socket**.

LED Indicators and Buttons:

LED Lights:

- **Red LED:** Power indicator.
- **Green LED:** Wi-Fi connection status.
- **Yellow LED:** NTP server synchronization status.

Button Functions:

- **AP Mode Button:** Enters **Access Point Mode** for Wi-Fi setup.
- **Factory Reset Button:** Resets the clock to factory settings.
- **DC Socket:** Plug in **12V DC 5A** center-positive power adapter.



LED Behavior and Meaning:

Yellow LED	Green LED	Status
OFF	Rapid Blinking	Clock in Access Point Mode
ON	Rapid Blinking	Factory Reset Enabled
Blinking Twice per Second	Blinking Twice per Second	Time Synchronized, Wi-Fi Connected
Blinking Once per Second	Blinking Twice per Second	Time Not Synchronized, Wi-Fi Connected
Blinking Once per Second	Blinking Once per Second	Time Not Synchronized, Wi-Fi Not Connected
Rapid Blinking	ON	Cannot Synchronize from SNTP Server, Wi-Fi Connected

3. First-Time Setup

Connecting to Web Interface

1. Power on the clock.
2. The **Green LED** should blink while the **Yellow LED** remains off.
3. If LEDs show a different pattern, follow the **Access Point Mode** section.
4. Scan for Wi-Fi networks on your device and connect to **PiLabsSyncClock** using password: SyncClock.
5. Open a web browser and go to **192.168.4.1** to access the user interface.



4. Reconfiguring a Connected Clock

1. Find the clock's **IP address** from your router settings.
2. Open a web browser and go `http://<IP_Address>`.
3. The user interface will appear.

5. Changing Settings

Changing Wi-Fi Network:

1. Access the user interface via a web browser.
2. Navigate to **Change Wi-Fi Settings**.
3. Enter your new **Wi-Fi SSID and Password**.
4. Default admin password: admin.
5. You will receive a success message after saving the changes.
6. If you enter incorrect details, use **Access Point Mode** to reset.

The screenshot shows a web interface titled "Synchronized Clock". Under the heading "Change Wi-Fi settings", there are three input fields: "Enter WiFi SSID", "Enter WiFi Password", and "Enter admin password". Below these fields is a dark "Submit" button. At the bottom of the form, it says "Current: Empty".

Changing SNTP Server Address:

1. Open the user interface.
2. Go to **Change SNTP Server Address**.
3. Enter a valid **NTP server address** (domain name or IP).
4. Enter admin password and submit.

The screenshot shows a web interface titled "Change sNTP server address". It has two input fields: "Enter sNTP server address (Domain name or IP address)" and "Enter admin password". Below these is a dark "Submit" button. At the bottom, it displays "Current: time.windows.com".

Tested NTP Servers:

Server	Status
time.google.com	Yes
time.cloudflare.com	Yes
time.facebook.com	Yes
time.apple.com	Yes
time.windows.com	Yes
bd.pool.ntp.org	Yes

Changing Time Zone:

- Set the desired **time zone** in the user interface.



Choose time zone:

GMT+12 : New Zealand Standard Time (NST) ▼

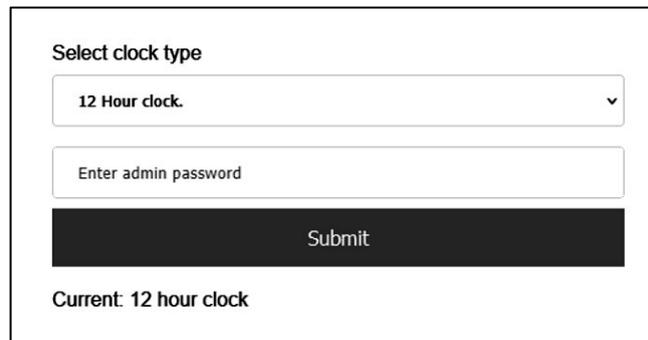
Enter admin password

Submit

Current: GMT+6.00

Changing Format:

- Choose between **12-hour or 24-hour format**.



Select clock type

12 Hour clock. ▼

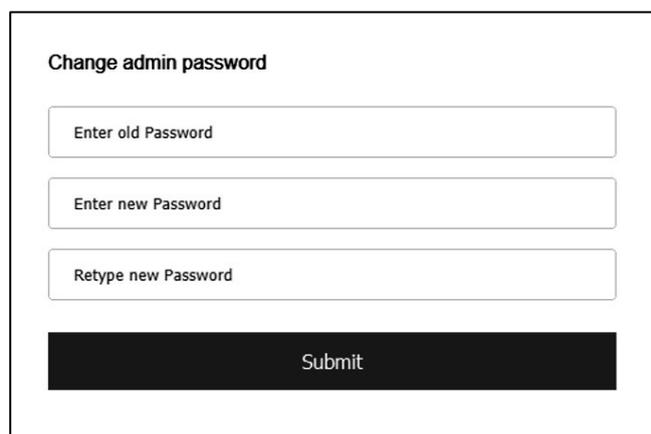
Enter admin password

Submit

Current: 12 hour clock

Changing Admin Password:

- Navigate to **Change Admin Password** in the interface.
- Enter a new password that meets security criteria.
- If forgotten, perform a **Factory Reset**.



Change admin password

Enter old Password

Enter new Password

Retype new Password

Submit

6. Access Point Mode

1. Turn off the clock.
2. Press and hold the **AP Mode** button.
3. Power on the clock while holding the button.
4. Connect to **PiLabsSyncClock** with password: SyncClock.
5. Go to **192.168.4.1** in your browser.

7. Factory Reset

1. Turn off the clock.
2. Press and hold **AP Mode and Factory Reset** buttons simultaneously.
3. Power on the clock while holding the buttons.
4. Release the buttons when the **Yellow LED stays ON**.
5. Reconnect to **PiLabsSyncClock** via Wi-Fi.

8. Troubleshooting Guide

Common Problems	Basic Solution
Clock not connecting to Wi-Fi	Check internet connection, verify IP, re-enter SSID and password
LED status appears abnormal	Ensure IP settings are correct (static/dynamic)
Time synchronization fails	Choose a valid NTP server, check firewall settings

9. Power Usage & Safety Instructions

- Use the provided **12V DC 5A** adapter.
- Keep the clock **away from water and extreme heat**.
- Ensure stable power to prevent resets.

10. Firmware & Software Updates

- Check for firmware updates from the manufacturer.
- Follow instructions provided by the **Solution Technical Team**.

11. Device Warranty Policy

- Standard warranty and support policy will be followed.

12. Contact Information & Support

- **Customer Support Phone:** +8801708166077
- **Email:** info@oslorelco.com
- **Website:** www.onnorokomelectronics.com
- **User Manual Download Link:** <https://onnorokomelectronics.com/synchronize-clock/>