User Manual

NGTeco Time Clock – D1, D2, W1, W2 and W3 series

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English

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.

For further details, please visit our Company's website www.ngteco.com.

About the Manual

This manual introduces the operations and usage of the **NGTeco Time Clock.**

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

Document Conventions

Conventions used in this manual are listed below:

GUI Conventions

For Software	
Convention	**Description**
Bold font	Used to identify software interface names e.g. **OK**, **Confirm**, **Cancel**.
>	Multi-level menus are separated by these brackets. For example, File > Create > Folder.
For Device	
Convention	**Description**
< >	Button or key names for devices. For example, press <OK>.
[ ]	Window names, menu items, data table and field names are inside square brackets. For example, pop up the [New User] window.
/	Multi-level menus are separated by forward slashes. For example, [File/Create/Folder].

Symbols

Convention	Description
	This represents a note that needs to pay more attention to.
	The general information which helps in performing the operations faster.
	The information which is significant.
	Care taken to avoid danger or mistakes.
	The statement or event that warns of something or that serves as a cautionary example.

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1   Overview

This document outlines the menu operations of the **NGTeco D and W Series Time Clock**. The NGTeco Time Clock provides convenience for users and minimizes the requirement of the computer skills of users. The clock allows the setting of attendance rules, managing user information, managing user privileges, setting pay periods, generating timecard reports and attendance logs, etc.

Key Features

- Easy to monitor and straight-forward services.
- Reduces management cost for attendance related procedures.
- Advanced attendance analytics.
- Granular visibility into attendance patterns.
- Greatly reduces month-end hassles and compliance challenges.

2   Operational Procedure

Note: Press and Hold M/OK for 3 seconds to open the menu.

2.1   Finger Enrollment

Finger Enrollment procedure includes capturing a user's fingerprint and saving it as a template to the corresponding User ID. To enhance the fingerprint authentication rate, make sure you enroll the finger in a proper manner.

2.1.1 Finger Selection for Enrollment

- It is recommended to use the index finger or middle finger to enroll your fingerprint.
- If the fingerprints on your selected hand are worn or damaged, try using the other hand.
- If the fingers are small, try enrolling the thumb finger.

2.1.2 Enrollment Operation

- Place the finger flat and centered on the sensor surface.

- The score for each enrollment will be displayed. Make sure the score is high enough to ensure proper enrollment and authentication.

- Place the finger consecutively until the success message appears. An illustration is given below:
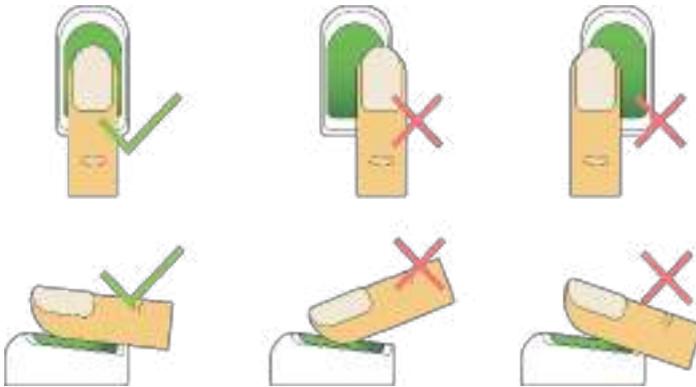
Figure 2-1: Fingerprint Registration

2.1.3 Quality Improvement of Fingerprint Reads

- Place the finger firmly on the sensor surface.

- Always use clean fingers for enrollment.

- Do not slide the finger while enrolling it.

- Avoid angled or tilted finger positions for enrollment.

For further details, refer **Fingerprint Enrollment**.

2.2   Verification Modes

In the NGTeco Time Clock, there are two verification modes, namely:

• Fingerprint verification
• Password verification

These verification modes can be used for check-in and check-out punches and access to the Admin menu.

2.2.1 Fingerprint

The fingerprint verification can be done in two ways:

1: N Verification: The clock compares the current fingerprint collected by the fingerprint sensor with all the fingerprints on the clock. Press your finger properly on the fingerprint sensor. If the fingerprint matches with the saved template, the verification is successful.

If the verification is successful, the success message will be displayed as shown below:

Figure 2-2: Successful Biometric Verification

If the verification failed, the message will be displayed as shown below:

Figure 2-3: Failed Biometric Verification

1:1 Verification: The clock compares the current fingerprint collected by the fingerprint sensor with the fingerprint template saved for the corresponding User ID. Enter your User ID through the keypad and press your finger.

Figure 2-4: 1:1 Verification Screen

If the fingerprint matches the saved template, the verification is successful, and the success message will be displayed as shown below:

Figure 2-5: Successful Biometric Verification

If the verification failed, the message will be displayed as shown below:

Figure 2-6: Failed Biometric Verification

If the clock displays **"Error ID No",** then the User ID is not yet created.

Figure 2-7: Failed 1:1 Verification

If the clock instructs **"Please try again"**, then press your finger again. You can try 2 more times. If the verification fails after trying for 2 more times, then the clock returns to the home screen.

2.2.2 Password

In the Password verification mode, the clock compares the entered password with the registered password corresponding to the User ID. If both the passwords match, then the verification is successful.

If the verification is successful, the success message will be displayed as shown below:

Figure 2-8: Successful Password Verification

If the verification failed, the message will be displayed as shown below:

Figure 2-9: Failed Password Verification

2.2.3 Attendance Status

Manual Punch

The clock's home screen displays the current attendance status:

Figure 2-10: Home screen

If you want to change the attendance status, press **IN** or **OUT** key as required.

The attendance status changes as shown below:

Figure 2-11: Changed Attendance Status

Auto Punch

When the auto punch mode is turned on, the device will automatically recognize the punch status. The first attendance record of each day is check-in, the second attendance record is check-out, and so on.

2.3   T9 Mode

The T9 mode allows you to enter the Uppercase, Lowercase, and Special characters in the text input fields. You can enter the alphabets and special characters by pressing one keystroke per letter.

- Navigate to the required text field and press **<M/OK>**.

Figure 2-12: Add User Details

- Each key on the keypad has a few letters printed above them. For example, pressing 3 can enter D, E, and F. To enter **"F"**, press 3 thrice. This is accomplished by comparing the number of keystrokes with the internal syntactical dictionary to determine the letter.
- Press **< ▼ >** to switch between Uppercase, Lowercase, and Special characters.

Figure 2-13: Special Characters

- To add the special character, press the corresponding key once. For example, to enter **"@"** press 3 once.

- After the input is complete, press the **<M/OK>** key twice to save.

3   Privileges

The user privileges are classified as:

- Administrator
- Users

3.1   Administrator

The Administrator privilege protects the clock against unwanted damage to important configurations and unwanted changes. The Administrator has the privilege to operate all the menus in addition to fingerprint/password-based attendance maintenance. The Admin can make changes to the configuration, add and modify user details, and query on attendance records. Click here to view the detailed menu operations.

Initially, the Admin must press and hold the **<M/OK>** key for 5 seconds. Then the Admin verification screen appears as shown below:

Figure 3-1: Locked screen for Admin Verification

The Admin must verify the fingerprint or press **<M/OK>** to verify the password.

Figure 3-2: Admin Verification

If a person other than Admin tries to open the menu with his own credentials, an error will be displayed as shown below:

Figure 3-3: Failed Admin Verification

Note: After registering as an administrator, you must use the administrator authentication method to enter the menu. Please keep your password in a safe place. If you forget your password, you can apply for a temporary password for verification.

3.2   Users

Users can make attendance punch through fingerprint/password verification methods.

For further details, refer **Verification Modes**.

3.2.1 How to Reset Admin Privileges

You can reset the Admin privileges, and this can be done at a single instance instead of doing one by one. The procedure is given below:

- Go to **[Data]** then **[Clear Permission].**

Figure 3-4: Clear Permission

- An alert will be displayed as shown below:

Figure 3-5: Confirmation screen

- Press **<M/OK>** if you want to reset the Admin Privileges.
- After deleting the permissions, a success message will be displayed as shown below:

Figure 3-6: Success message after clearing permission

4   Main Menu

The Time Clock comprises the following menu. Long press 3s **<M/OK>** to enter the menu.

Users	• Manages User Data • Upload/Download User Data
Pay Period	• Setting Payment Cycle Period such as Weekly, Bi-weekly, Monthly or Semi-monthly
Time Data	• Viewing Attendance Details • Adding Manual logs • Viewing Attendance of individual employees
Time Report	• Selecting Payment cycle to calculate Attendance • Downloading Attendance Reports for further processing
Communication	• Configuring Wi-Fi Manually or by USB Drive • Mobile App Connection
Rule	• Setting Maximum Work Hours • Setting Day Cutoff Time • Setting Duplicate Punch Interval
Data	• Downloading/Deleting Attendance logs • Updating Firmware • Resetting Device/Clearing all data • Clearing Admin Permissions
System	• Setting Date and Time • Viewing Device Information

Figure 4-1: Main Menu

5   User Management

The **Users** menu frames a role-based access control and the tasks they can perform in the time clock. The Administrator(s) can grant and revoke roles and permissions at the clock level. To change the permission of a user, the administrator(s) updates the role. It allows the Administrator(s) to add new users, edit the details of an existing user, uploading/downloading the user details from/to a USB drive.

Figure 5-1: User List

5.1   New User Registration

New users in an organization can be added to the time clock by an Administrator. It includes simple steps that can be performed without much effort. The steps to add a new user are given below:

1.   Go to **[Users]** and navigate to **[Add User]** by pressing the respective navigation key. The Interface to add a new user will be displayed as shown below:

Figure 5-2: Add a New user

2. Enter the following details:

Figure 5-3: User Details

- **ID:** The User ID will be auto-generated beginning from 1. If you want to change the User ID generated by the clock, delete the displayed ID by pressing < ⊙/◀ > and enter the new User ID.

- **First Name:** Enter the First Name of the user.

- **Last Name:** Enter the Last Name of the user. Refer **T9 Mode** for further details.

- **Fingerprint:** To enroll the fingerprint, press **<M/OK>**. The interface to enroll the fingerprint will be displayed as shown below:
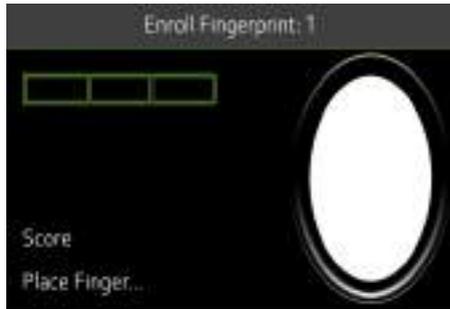
Figure 5-4: Fingerprint Enrollment

- To view more details, refer **Fingerprint Enrollment**.
- After successful enrollment, the success message will be displayed as shown below:

Figure 5-5: Successful Enrollment

You can register a maximum of three fingerprints. If you try to register more than 3 fingerprints, the clock raises an alert message as shown below:

Figure 5-6: Alert to overwrite Fingerprints

If you press **<M/OK>,** then all the registered fingerprints will be deleted, and you can restart the enrollment process.

- **Password:** To register a password, press the **<M/OK>** key. The interface to register the password will be displayed as shown below:

Figure 5-7: Enroll Password

- Enter the password and confirm the same.
- Then press **<M/OK>** to save the password.
- The indication of the registered password will be displayed as shown below:

Figure 5-8: Change Password

The entered password must be a maximum of 8 characters.

- **Permission:** Set the Permission level of the user as Users/Administrator. Press the < ▶ > or < ◀ > key to switch between Users and Administrator options.

3. Navigate to **[Save]** and press **<M/OK>** to save the user details.

5.2   User Data Management

The Administrator can also modify the existing user data. The steps to edit the user data are given below:

1. Go to **[Users]** and navigate to **[User List]**.

Figure 5-9: User List menu

2. The user's list will be displayed as shown below:

Figure 5-10: User List

3. Navigate to the respective user by pressing the corresponding navigation keys.

4. The shortcut keys to manage the data are:

    <1> - Edit the user details

    <2> - Enroll the fingerprint

    <3> - Delete the user

    <4> - View the time and attendance details of the respective users.

5.2.1 Edit User Details

- Press **<1>** to edit the user details. The interface to edit the user details will be displayed as shown below:

Figure 5-11: Edit user details

- Navigate to the corresponding field and make necessary changes. To add another fingerprint, navigate to Fingerprint and press **<M/OK>**. Enroll the fingerprint. Similarly, navigate to Password and press **<M/OK>**. Enter the New Password and confirm the same.
- You can also change the permission of the user by pressing the **< ▶ >** or **< ◀ >** key.
- Finally, navigate to **[Save]** and press **<M/OK>**.

You cannot edit the ID of the user.

5.2.2 Enroll the Fingerprint

- If you prefer to enroll the fingerprint of the user, navigate to the corresponding user and press **<2>.**

- Refer **Fingerprint Enrollment** to proceed further.

5.2.3 Delete User

- If you require to delete a user permanently, navigate to the corresponding user and press **<3>.**

- An alert will be displayed as shown below:

Figure 5-12: Alert to delete user

- Press **<M/OK>** to delete the User.

5.3 How to Transfer User Data

The user data can be transferred in two ways:

- From Clock to the USB drive
- From USB drive to clock

5.3.1 Upload User Data from USB Drive to Clock

To add a large number of user data, you can directly upload it from a USB drive. The clock facilitates you to add bulk user data without any complexity in a short duration of time. The procedure to upload the user data is given below.

- Go to **[Users]** and navigate to **[Upload Users]**.

Figure 5-13: Upload User Data

- Insert the USB drive into the USB slot.

- Navigate to **[Download Template File-1]** and press **<M/OK>.**

Figure 5-14: Download Template

- The template will be downloaded to the USB drive with the file name **ecuser.txt** and the success message will be displayed as shown below:

Figure 5-15: Success message after downloading template

- Insert the USB drive to your PC to edit the template file.

- The template file will be displayed as shown below:

Figure 5-16: Template file - 1

- Double-click to open the template file. The template file details will be displayed as shown below:

Figure 5-17: Template file -2

- Edit the ID, First Name, Last Name, Password, and permission. An example is shown below:

Figure 5-18: Edit user details

- Save the template and insert the USB drive into the clock again.

- Go to **[Users]** and navigate to **[Upload Users]**.

- Navigate to **[Upload User File -2]** and press **<M/OK>.**

Figure 5-19: Upload template

- After uploading, the success message will be displayed as shown below:

Figure 5-20: Success message after uploading the template

If any existing User ID is the same as the uploaded User ID, then the existing user details will be replaced by the newly uploaded user details.

5.3.2 Download User Data from Clock to USB Drive

If you need to download all the user details, perform the following steps:

- Go to **[Users]** and navigate to **[Download Users]**.

Figure 5-21: Download user data -1

- Insert a USB Drive into the clock.

Figure 5-22: Download user data - 2

- Navigate to **[Backup User -1]** and press **<M/OK>.**
- The success message after downloading the user data will be displayed as shown below:

Figure 5-23: Success message after downloading user data

- Insert the USB drive to your PC and the file will be downloaded in the name of **"ecuser.txt".**
- The downloaded file will be displayed as shown below:

Figure 5-24: Downloaded file

6   Pay Period

A pay period is a length of time over which the user's attendance time is recorded and paid. It is a recurring time schedule that determines how often the users will be paid. The pay period ensures that the users will be paid regularly for their work. It also simplifies the reporting requirements for employer liabilities.

The types of pay periods adopted in this time clock are:

- Weekly Pay Period
- Bi-weekly Pay Period
- Semi-monthly Pay Period
- Monthly Pay Period

6.1   Weekly Pay Period

A weekly pay period consists of 52 pay periods in a year, one week of each. The payroll is scheduled to run on the same day every week.

Perform the following steps to set the Weekly Pay Period:

1. Go to **[Pay Period]**.
2. Press < ▶ > to view the available pay period options.
3. Select **[Weekly Pay Period]**.
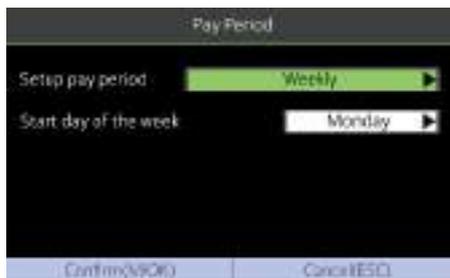
Figure 6-1: Weekly Pay period

- **Start day of the Week:** It means that the start of the week is counted from this day.

4. Then press **< ▼ >** to navigate and set the starting day of the week.

5. Then navigate to **[Confirm]** and press **<M/OK>.**

6.2   Bi-weekly Pay Period

A bi-weekly pay period consists of 26 pay periods in a year (2 weeks or 14 days). Like the weekly pay period, a bi-weekly pay period also starts on the known day of a week.

Perform the following steps to set the Bi-Weekly Pay Period:

1. Go to **[Pay Period]**.
2. Press **< ▶ >** to view the available pay period options.
3. Select **[Bi-Weekly Pay Period]**.

Figure 6-2: Bi-Weekly Pay period

- **Pay Period Effective Start Date:** This date is bi-weekly pay start day.
- **Start day of the Week:** It means that the start of the week is counted from this day.

4. Then press **< ▼ >** to navigate and set the effective starting date of the pay period.

5. Press **< ▼ >** to select the start day of the week.

6. Then navigate to **[Confirm]** and press **<M/OK>.**

6.3   Semi-monthly Pay Period

A semi-monthly pay period consists of 24 pay periods in a year. Each month will have exactly 2 pay periods. By default, the first pay period runs from the 1st-15th date of the month and the second pay period runs from 16th to the last date of the month. (Note: The start day of Semi-month may vary for each company)

Perform the following steps to set the Semi-Monthly Pay Period:

1.   Go to **[Pay Period]**.
2.   Press **< ▶ >** to view the available pay period options.
3.   Select **[Semi-Monthly Pay Period]**.

Figure 6-3: Semi-monthly Pay period

- **Start Day of First Half Month:** The first half of the month is calculated from this day.

- **Start Day of Second Half Month:** The second half of the month starts from this day.

- **Start Day of the Week:** It means that the start of the week is counted from this day.

4.   Then, press **< ▼ >** to navigate and set the start day of the first and second half of the month.
5.   Then, press **< ▼ >** to navigate and set the start day of the week.
6.   Navigate to **[Confirm]** and press **<M/OK>.**

6.4   Monthly Pay Period

The payroll runs on the same date of every month.

Perform the following steps to set the Monthly Pay Period:

1.   Go to **[Pay Period]**.

2.   Press **< ▶ >** to view the available pay period options.

3.   Select **[Monthly Pay Period]**.

Figure 6-4: Monthly Pay period

- **Start Day of the Month:** The beginning of each month is calculated from this day.

- **Start Day of the Week:** It means that the start of the week is counted from this day.

4.   Then, press < ▼ > to navigate and set the start day of the month.

5.   Then, press < ▼ > to navigate and set the start day of the week.

6.   Navigate to **[Confirm]** and press **<M/OK>.**

7   Attendance Management

The NGTeco Time Clock automates and provides a simple way to record the attendance of users with Fingerprint/Password verification. It also assists the employer to track the user's attendance analytics such as work hours, absenteeism, missing attendance punches, etc. This automated clock greatly reduces the computational errors and transcriptional errors thus facilitating hassle-free attendance calculation.

7.1   Attendance Rules

Attendance Rules are a predefined set of specifications framed to maintain clear and consistent attendance management of the users.

The procedure to set the attendance rules is given below:

1.   Go to **[Rule]**.
2.   The interface to set the attendance rules will be displayed as shown below:
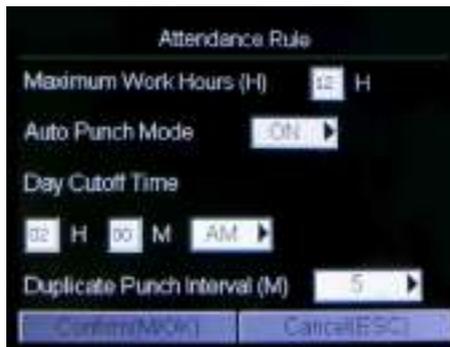
Figure 7-1: Attendance Rule

3.   Enter the following details:

Maximum Work Hours: Set the maximum number of working hours in a day. When the time difference between two attendance punches (check-in and check-out) exceeds this maximum work hour, then the attendance will be calculated separately for that day. Then you can identify that there are missing attendance punches between the actual punches made by the users. The default value is 12 hours.

Auto Punch Mode: When this feature is enabled, the punch state will not be displayed on the home screen and the punch state will be updated automatically based on the previous punch state of the user. For example, if the user's first punch state is Check-in, then the next punch state is Check-out. This feature is enabled by default.

Note: When the time exceeds the Day Cutoff Time, the punch state will be reset to Check-in. If the Auto Punch Mode is turned off, the user needs to select the punch state manually and the punch state will be displayed on the home screen. Press the ⊙/< button to change the punch state to IN, and the <M/OK> button to change the punch state to OUT. The punch state is Check-in by default and if the user presses the <M/OK> button the state will change to Check-out for five seconds. Then, the state will be auto-changed to Check-in.

Day Cutoff Time: Set the time on which the day is changed to the next day on the clock.

Example: Consider the day change time is set to 2:00 AM. If the users start to work before 2:00 AM, then the total worked hours until check-out will be added to the previous day. If the users start to work after 2:00 AM, then the total worked hours until check-out will be added to the next day.

Duplicate Punch Interval: The Duplicate Punch interval defines the time duration in which the clock considers only the first attendance punch, even if you make many attendance punches within the defined period. The unit is **minutes**.

Example: Assume that the duplicate punch period is 5 minutes. If you make several check-in attendance punches within 5 minutes, the clock considers only the first punch time and ignores the rest of the attendance punches.

4.   Navigate to **[Confirm]** and press **<M/OK>**.

7.2   Attendance Tracking

You can track and monitor the user's attendance to ensure productivity and workflow during working hours.

7.2.1 Every Day's Attendance

The clock is equipped with a provision to view the daily attendance of users. The steps to view the daily attendance is given below:

1.   Go to **[Time Data]** and then **[Today's Attendance]**.

Figure 7-2: Today's Attendance

2.   The attendance details of the day will be displayed as shown below:

Figure 7-3: Attendance Details

3.   The columns are described as follows:

- **ID:** Displays the User ID of the users.

- **Name:** Displays the Name of the users.

- **Time:** Displays the time when the attendance punch is made.

- **State:** Displays the state of the attendance punch(check-in/check-out)

You can also check the Users Attendance through the **[Users]** menu. Go to **[Users]** and perform the steps as below:

- If you need to view the attendance details of the particular users, navigate to the corresponding user and press **<4>**.

Figure 7-4: Time Data

- The attendance record of the users for that specific pay period will be displayed as shown below:

Figure 7-5: Attendance of a user

- Navigate to the required date and press **<M/OK>**. The attendance status will be displayed as shown below:

Figure 7-6: Attendance in a Day

7.2.2 Attendance of Individual Users

The clock has a provision to track the attendance of individual users to ensure all users are fulfilling their obligations. It also helps the Management to identify the potential attendance issues. The steps to track the attendance of individual users are given below:

1. Go to **[Time Data]** and then **[View History Attendance]**.

Figure 7-7: Attendance History

2. The interface to select users will be displayed as shown below:

Figure 7-8: Selecting a User

3. To select a user, select **[Select user]** and press **<M/OK>.**

4. The list of users will be displayed as shown below:

Figure 7-9: Users List

5. Navigate to the required users and press **<M/OK>**.

6. The selected users will be displayed as shown below:

Figure 7-10: Selected users to view Attendance

7. Navigate to **[View Data]** and press **<M/OK>**.

8. The attendance of the selected users will be displayed as shown below:
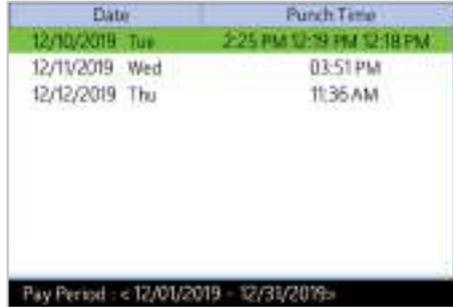
Figure 7-11: Attendance Details of the selected users

7.2.3   Add Missing Attendance Punch

Note: Press the OUT button before punching out to avoid missing punch out on that day.

When a user forgets to punch for check-in/check-out, the attendance details can be logged in manually. The steps to add manual logs is given below:

1. Go to **[Time Data]** and then **[Add Missing Punch]**.

Figure 7-12: Add missing punches

2. The interface to add the missing punches will be displayed as shown below:

Figure 7-13: Missing Punch details

3. Initially, you must select the users to whom you must add the missing punches. This can be done in two ways:

   - Navigate to **[Select User]** and press **<M/OK>**. (or)
   - Press the fingerprint of the respective users.

4. **Date:** Enter the date on which you must add the missing attendance punch by navigating to Month, Date, and Year text boxes by pressing < ▼ >key.

5. **Time:** Enter the Time by navigating to Hour and Minute text boxes by pressing < ▼ > key. If the time format is 12-hours, then select **[AM/PM] by** pressing < ▶ > key.

6. Select the attendance state as Check-in/Check-out by pressing < ▶ > key.

7. Navigate to **[Confirm]** and press **<M/OK>.**

Note: Check-in and check-out information cannot be deleted from the device, but administrators can use the edit check-in/check-out function in the NGTeco Time app. For details, see **Edit Punch**.

8   Time-Attendance Reports

You can generate statistical reports that display the attendance details of the users in the specified pay period. The difficulty of maintaining the user's time and attendance is lessened with this simple reporting system. The data generated from these attendance reports assist with efficient management of user's resources and report accuracy.

8.1   Report Parameters

The procedure to set the report parameters is given below:

- Go to **[Time Report]**. The interface to generate reports will be displayed as shown below:

Figure 8-1: Time Report

- The available pay period options are the **Current Pay period** and **Custom Pay period**. You can also select the date range of the pay period which is currently being used. In the Custom Pay period, you can define the date range within 31 days.
- Select the required pay period by pressing **< ▶ >** or **< ◀ >** key.
- Then navigate to **[Start]** and enter the Month, Date, and Year by pressing < ▼ > key.
- Similarly, navigate to **[End]** and enter the Month, Date, and Year by pressing < ▼ > key.

The Start and End dates are predefined based on the selected pay periods except for the Custom Pay period.

- Navigate to **[Report Hour Format]** and set the unit to calculate the time. It can be HH: MM/Decimal.

8.2   Download Reports

- Insert a USB drive to download the report.
- Navigate to **[Confirm]** and press **<M/OK>.**
- After downloading the report, the success message will be displayed as shown below:

Figure 8-2: Success Message after generating time report

- Now insert the USB drive into your PC to view the reports.
- The report will be downloaded by the name of date and time as shown below:

Figure 8-3: Downloaded Attendance Report

- The report will be displayed as shown below:

	A	B	C	D	E	F	G
43	Pay Period			01/01/2020-01/30/2020			
44	Employee			Jjmtj Tmjtm (3)			
45	Date		IN	OUT	Work Time	Daily Total	Note
46	WED	01/01/2020	01:53 PM	03:55 PM	02:01	02:01	
47	THU	01/02/2020					
48	FRI	01/03/2020					
49	SAT	01/04/2020					
50	SUN	01/05/2020					
51	MON	01/06/2020	10:45 AM	11:45 AM	01:00	01:00	
52	TUE	01/07/2020	10:26 AM	11:31 AM	01:05	01:05	
53	WED	01/08/2020	11:01 AM	11:15 AM	00:14	00:14	
54	THU	01/09/2020	03:36 PM	05:36 PM	02:00	02:00	
55	FRI	01/10/2020					
56	SAT	01/11/2020	05:54 PM	09:57 PM	04:03	04:03	
57	SUN	01/12/2020	07:59 AM	10:02 AM	02:03	02:03	
58	MON	01/13/2020	02:03 AM	09:07 AM	07:03	07:03	
59	TUE	01/14/2020	09:07 AM	11:11 AM	02:04	02:04	
60	WED	01/15/2020	02:12 AM	10:16 AM	08:03	08:03	
61	THU	01/16/2020					
62	FRI	01/17/2020					
63	SAT	01/18/2020	01:27 AM	10:27 AM	09:00	09:00	
64	SUN	01/19/2020					
65	MON	01/20/2020					
66	TUE	01/21/2020					
67	WED	01/22/2020					
68	THU	01/23/2020					
69	FRI	01/24/2020					
70	SAT	01/25/2020					
71	SUN	01/26/2020					
72	MON	01/27/2020					
73	TUE	01/28/2020					
74	WED	01/29/2020					
75	THU	01/30/2020					
76	Total Hours					38:40	

Figure 8-4: Detailed Attendance Report

- The report consists of the specific Pay period, Name of the employee, Date-wise check-in and check-out time, actual work time, and total worked time.

- The report uses the nearest rule calculation. For example, if the punch states are IN, IN, and OUT for the same user, the device will match the second IN and OUT and the report displays Missing OUT for the first IN.

ID	Name	Date	IN	OUT	Work Time	Note
999	wang1 wu	01-20-2021	06:01 AM			Missing OUT
999	wang1 wu	01-21-2021	05:51 AM	06:22 AM	0.51	

- If the time interval between the IN and OUT states is more than the maximum work hours, then the report will show Missing IN and Missing OUT.

9   Communication Parameters

You can set the communication parameters to connect the clock with Wi-Fi.

9.1   Manual Wi-Fi Configuration

9.1.1   Connection to an Existing Wi-Fi

The steps to connect to Wi-Fi is given below:

1.   Go to **[Comm.]** then **[Wi-Fi manual setup]**.

Figure 9-1: Manual Wi-Fi connection

2.   The list of available Wi-Fi connections will be displayed as shown below:

Figure 9-2: Available Wi-Fi networks

3.   Navigate to the required Wi-Fi connection and press **<M/OK>**.

4. The interface to connect Wi-Fi will be displayed as shown below. If the signal strength is weak, the device may fail to connect.
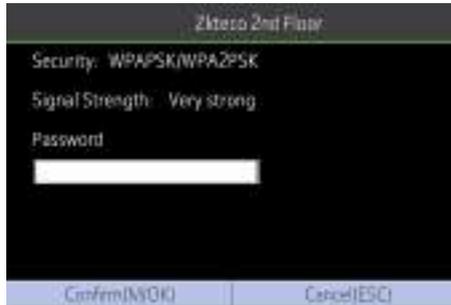
Figure 9-3: Wi-Fi Connection interface

5. Navigate to **[Password]** and enter the password to connect.
6. Then navigate to **[Confirm]** and press **<M/OK>**.
7. Once connected, the connectivity status will be displayed as shown below:

Figure 9-4: Connected Wi-Fi

If the special symbol is set as the Wi-Fi password, only these are supported:

0. ,	9. #	18. {	27. &
1. .	10. *	19. }	28. _
2. ;	11. +	20. <	29. |
3. :	12. -	21. >	30. $
4. /	13. =	22. ~	31. (Space symbol)
5. ?	14. (	23. "	32. ^
6. !	15.)	24. `	
7. %	16. [	25. \	
8. @	17.]	26. '	

Note:

- Device Wi-Fi only supports 2.4GHz communication.
- It is recommended that you connect your device within approximately 15 metres of Wi-Fi.
- If the Wi-Fi connection status of your device shows not connected for a long time, please enter the password again.

9.1.2   New Wi-Fi Connection

To add a new Wi-Fi connection, perform the following steps:

1. Go to **[Comm.]** then **[Wi-Fi Manual Setup]**.
2. Press **<3>** to add a new connection. The interface to add a new connection will be displayed as shown below:

Figure 9-5: SSID and Password

3. Enter the **[SSID]** and **[Password].**

4. Navigate to **[Confirm]** and press **<M/OK>**.

9.1.3   Enable/Disable DHCP

To enable/disable DHCP, perform the following steps:

1. Go to **[Comm.]** then **[Wi-Fi Setting]**.

2. Press **<0>** to view the DHCP settings.

3. Turn on DHCP if unable to connect to WI-FI.

Figure 9-6: DHCP Interface

4. If you disable DHCP, you must manually set the IP Address, Subnet mask, and Gateway by pressing < ▼ >. The interface is shown below:

Figure 9-7 DHCP Connectivity

5. Then navigate to **<M/OK>**.and press **<M/OK>**.

9.2   Wi-Fi Configuration through USB

You can also configure Wi-Fi through the Wi-Fi configuration template uploaded from a USB disk.

To configure Wi-Fi through a USB disk, perform the following steps:

1.   Go to **[Comm.]** then **[Wi-Fi Setup by USB]**.

Figure 9-8: Wi-Fi setup by USB

2.   The interface to download the template will be displayed as shown below:

Figure 9-9: Wi-Fi setup template Download

3.   Insert a USB drive into the clock.

4.   Navigate to **[Download]** and press **<M/OK>**.

5.   After downloading the template, a success message will be displayed as shown below:

Figure 9-10: Success message after download

6.   Now, insert the USB drive into your PC. The Wi-Fi configuration file will be downloaded as shown below:

Figure 9-11: Downloaded template

7.   Modify the template file by entering the SSID and Password.
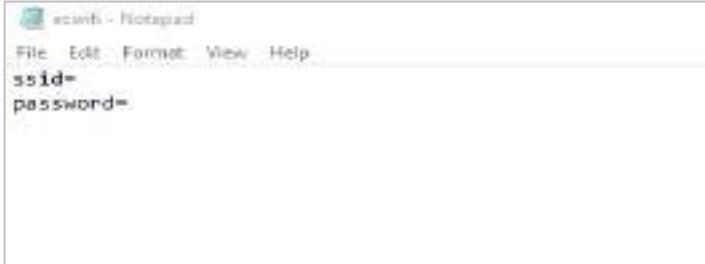
Figure 9-12: Connectivity Interface

8.   Save the file and again insert the USB drive to the clock.

9.   Go to **[Comm.]** then **[Configure Wi-Fi through USB]**.

10.   Then select **[Upload]**.

11.   The clock will be connected to the configured Wi-Fi with the uploaded SSID and Password.

9.3   App Connection

Go to **[Comm.]** and then **[App Connection]** to view the QR code.

Figure 9-13: App Connection

Port: The Port number of the device.

Password: Password to connect to the NGTeco Time app.

Note: The device must be connected to Wi-Fi or the Ethernet successfully, otherwise the QR code will not be displayed.

The process in detail refers to **14 Connect to NGTeco Time App**.

10 Data Management

Data Management is an administrative process that includes acquiring, validating, and processing the required data to ensure the smooth functioning of the time-attendance clock.

Figure 10-1: Data Management

10.1 Attendance Log Management

Attendance logs are usually updated in the attendance software for further processing.

10.1.1 Download Attendance Logs

Perform the following steps to download the attendance logs:

1. Insert the USB drive into the clock.
2. Go to **[Data]** and then **[Download Attlog].**

Figure 10-2: Download Attendance Log

3.   After downloading the attendance logs, a success message will be displayed as shown below:

Figure 10-3: Success message after downloading Attendance logs

4.   Now, insert the USB drive to your PC and upload the logs to the attendance software.

5.   The downloaded file on the USB drive will be named **AttendanceLogxxxx.dat** as below. You can open it with a text editor to view the attendance data.

Figure 10-4: Downloaded Attendance logs

10.1.2 Delete Attendance Logs

Perform the following steps to delete the attendance logs:

1.   Go to **[Data]** then **[Delete Attlog].**

Figure 10-5: Delete Attendance logs

2. An alert will be displayed as shown below:

Figure 10-6: Confirmation to delete Attendance logs

3. Press **<M/OK>** to delete all the attendance logs.

4. After deleting the attendance logs, a success message will be displayed as shown below:
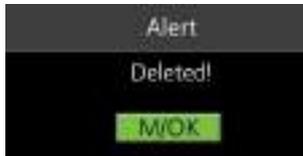
Figure 10-7: Success message after deleting Attendance logs

10.2 Clock Reset

If you want to reset the clock to its initial working state, perform the following steps:

1. Go to **[Data]** then **[Reset Opts.]**.

Figure 10-8: Clock Reset

2. An alert will be displayed as shown below:

Figure 10-9: Confirmation to Reset the clock

3. Press **<M/OK>** to delete all the data.

4. After resetting the clock, a success message will be displayed as shown below:

Figure 10-10: Success message after reset

10.3 Delete All Data

Perform the following steps to delete all the data:

1. Go to **[Data]** then **[Delete All Data].**

Figure 10-11: Delete all Data

2. An alert will be displayed as shown below:

Figure 10-12: Confirmation to delete all data

3.   Press **<M/OK>** to delete all the data.

4.   After deleting the data, a success message will be displayed as shown below:
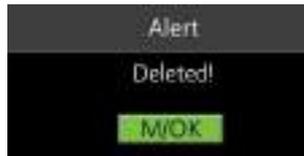
Figure 10-13: Success message after deleting all data

If you are sure to Delete All Data, all the information in the device will be deleted.

10.4   Firmware Update

You can contact the distributor to update the Firmware. Perform the following steps to update the firmware:

1.   Insert the USB drive which contains the Firmware files.

2.   Go to **[Data]** and then **[Update Firmware]**.

Figure 10-14: Update Firmware

3. An alert will be displayed as shown below:

Figure 10-15: Confirmation to update Firmware

4. Press **<M/OK>** to update the firmware.

5. After updating the firmware, a success message will be displayed as shown below:

Figure 10-16: Success message after updating Firmware

Make sure that the Firmware files are kept inside a single folder with folder name **"update"**.

11   System Settings

11.1   Clock Date and Time

It is necessary to calibrate the date and time of the clock before usage to ensure accurate attendance time. The procedure to set the date and time is given below:

- Go to **[System]** and press **<M/OK>.**
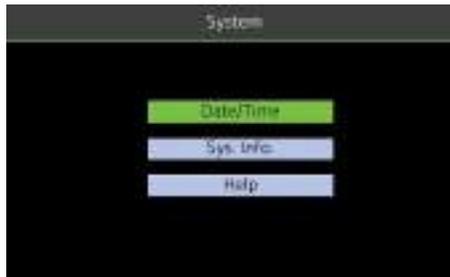
Figure 11-1: Date and Time Settings -1

- Then go to **[Date and Time]** and press **<M/OK>.** The interface appears as shown below:

Figure 11-2: Date and Time Settings -2

The following are the required parameters to set the date and time.

Date: Set the Date by navigating to Month, Date, and Year text boxes by pressing **< ▼ >** key.

Time: Set the Time by navigating to Hours and Minutes text boxes by pressing **< ▼ >** key.

Date Format: Set the Date Format from the available options using **< ▶ >** or **< ◀ >** key.

Time Format: Set the Time Format from the available options using **< ▶ >** or **< ◀ >** key.

If the Time Format is set to 12-hours, then set AM/PM using **< ▶ >** or **< ◀ >** key.

Daylight Saving: Enable or Disable the Daylight Saving using **< ▶ >** or **< ◀ >** key.

After setting the parameters press **<M/OK>** to save the date and time.

11.2 Clock Information

You can view the clock-related details to ensure the existing parameters of the clock.

* Go to **[System]** and press **<M/OK>**.
* Then navigate to **[System Info]** and press **<M/OK>**.
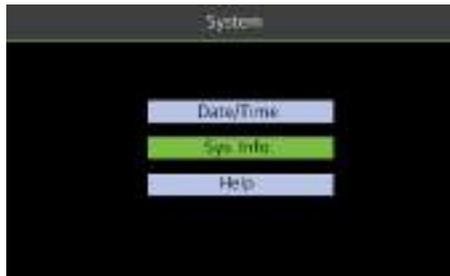
Figure 11-3: System Information -1

- The Clock Information will be displayed as shown below:

Figure 11-4: System Information - 2

The following details will be displayed:

- **Vendor Name:** The Manufacturer of the Clock.

- **Clock Name:** The model name of the clock.

- **Serial Number:** The unique number provided to the clock.

- **Firmware ver.:** It shows the core board name and version inside the clock.

- **Algorithm Version Number:** It represents the Fingerprint Algorithm Version.

- Wi-Fi SDK number

- Manufactured Time

- Number of enrolled users

- Number of registered fingerprints

- Number of attendance punches made

12 Contact Us

You can contact us for any queries related to the working of the attendance clock. Go to **[System]** and then **[Help]**.

Figure 13-1: System Help

Scan the generated QR code to connect to the support website.

Figure 13-2: Support Screen

13 Connect to NGTeco Time App

The App Connection interface allows you to connect the NGTeco Time Mobile app with the time clock. Once connected, you can perform User management, Report management, etc. on the Mobile app. The process is as follows:

1. Download and install the NGTeco Time App on your phone.
2. Connect the mobile and time clock to the same Wi-Fi network.
3. Select **[Comm.]** and then **[App Connection]** to view the QR code.
4. Enter the Password and Confirm.

1. Open the NGTeco Time App and press to scan the QR code from the clock.
2. After a successful connection, you can set the clock parameters from your mobile.

13.1   Register Users from App

1. Go to **Users** menu.
2. Click the **Add User** icon to add a **New user**.
3. The User ID can be auto generated or manually assigned.
4. Enter the First Name, Last Name and Password.
5. Set the permission.
6. Click **Save & Sync** to sync the user details to the time clock.
7. Open the User List on the clock to enroll user's face.

13.2   Attendance

View Attendance Record

1. Go to **Attendance** menu.
2. Select **View User's Attendance Record**. You can also select the date.

Add Missing Punch from App

1. Go to **Attendance** menu.
2. Click the **Add Punch** icon.
3. Select the user to add the missing check-in/out.
4. Select the Punch Date and Time.
5. Select the Punch State.
6. Click **Save & Sync** to sync the attendance details to the clock.

Edit Punch

1. Go to **Attendance** menu.
2. Select the user record you want to edit, and click the **Edit Punch** icon.
3. Select the Punch Date and Time.
4. Select the Punch State.
5. Click **Save & Sync** to sync the attendance details to the clock.

13.3   Download Time Report from App
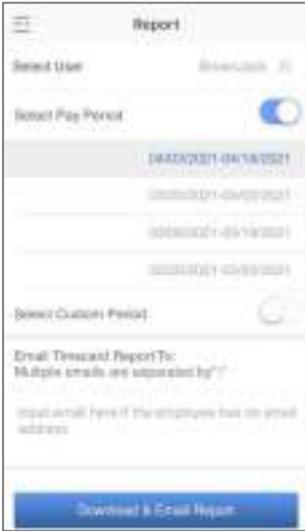
1. Go to **Report** menu.
2. Select a user or all the users.
3. Select the specific **Pay Period**.
4. Or, select **Custom Period** and set a date range within 31 days.
5. Enter the email addresses.
6. Click **Download & Email Report** to generate the time report.

Note: Connection to a computer and remote download of reports is not supported.

13.4   Setup Pay Period and Attendance Rule from App

1. Go to **Setup** menu.
2. Set the **Pay Period**.
3. Set the **Start Day of the week**.
4. Set the **Day Cutoff Time**.
5. Set the **Duplicate Punch Interval**.
6. Set the **Maximum Work Hours**.
7. Set the Time format for report generation. Click **Save & Sync** to sync the settings to the clock.

14 Troubleshooting

Category	Issue	Quick fix
Power	The clock does not operate after the power is supplied	• Check the Power Cable for any damages.
PIN	I lost my PIN	• Contact the Administrator to change the PIN. • If you have lost the Admin PIN, contact the supplier.
Fingerprint	The enrolled fingerprint could not be authenticated	• Place the finger in a proper position. • Make sure your finger is free from cuts and stains. If the registered finger has such flaws, enroll another finger.
Admin	I lost my Admin credentials	• Contact another Admin to reset your credentials. • Contact the supplier for further proceedings.

NGTeco

Website: www.ngteco.com

Email: ngtime@ngteco.com

Phone: (770) 800-2321

Support: https://www.ngteco.com/contact/