



MHEW

**Machine Health and Electricity Waste
Management Cloud Platform
Operation Manual**

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I. About MHEW Machine Health Electricity Waste Management Cloud Platform

The MHEW Machine Health Electricity Waste Management Cloud Platform provides customers with a solution for smart upgrading of traditional devices.

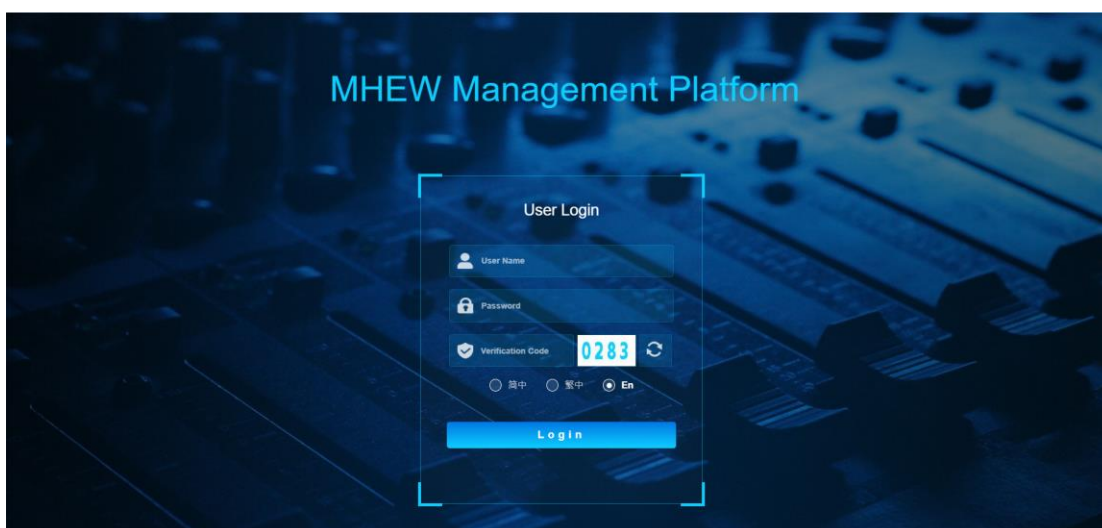
By simple installation, users can access their devices to the platform. Then obtain instant information, history graphs, abnormal warnings, statistical reports, analytical diagnosis and other information about the device. Incorporate health management and estimate the amount of electricity wastes & excessive equivalent emissions of carbon kilograms, analyze the causes of bad electricity use to reduce electricity consumption and carbon waste.

II. Login to the Platform

MHEW Cloud Service URL: <https://mhmp.push-server.info>

When log in for the first time, please use the Cloud Service Account (User Name) and Cloud Service Password (Password) provided in the Tecom Cloud Service Card. After logging in, please change your password immediately (refer to Chapter IV, Section 2. Change Password on Page 5). Please be cautious in keeping your new password secure. In case of forgetting the password, please contact Tecom Support Team for password reset.

Recommended browsers: Chrome. Recommended resolution: 1440 X 900



III. Homepage

After logging into the platform, users can view the current system equipment connection status, Warning Record, hourly and annual estimates of Power Wastes and Carbon Emissions.



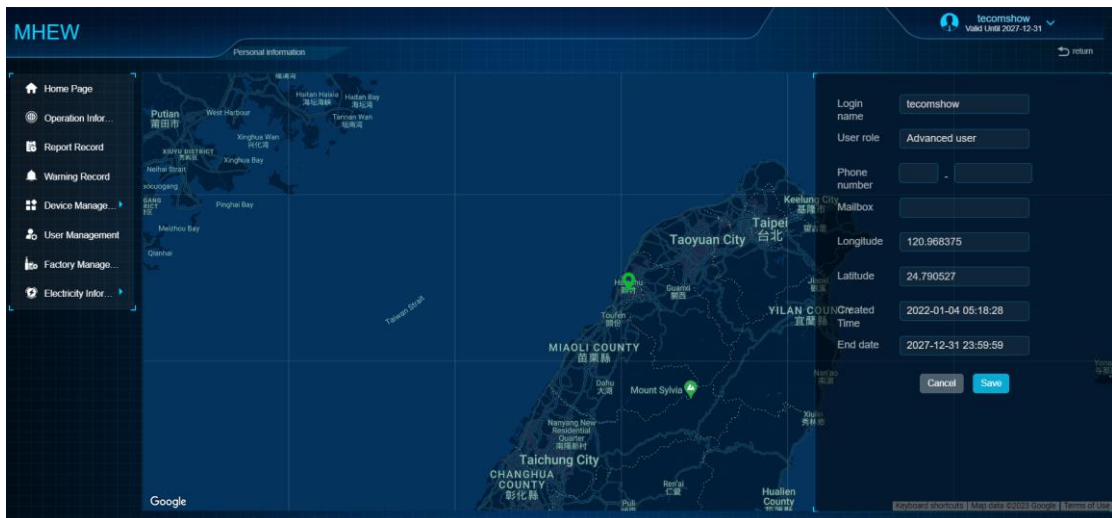
IV. Menu

In the top right corner, the current username will be displayed. Below it is the expiration date for admin user. It is also the expiration date for the entire platform.

Through the dropdown menu in the top right corner, "Personal information" and "Change password" can be accessed, or simply logout.

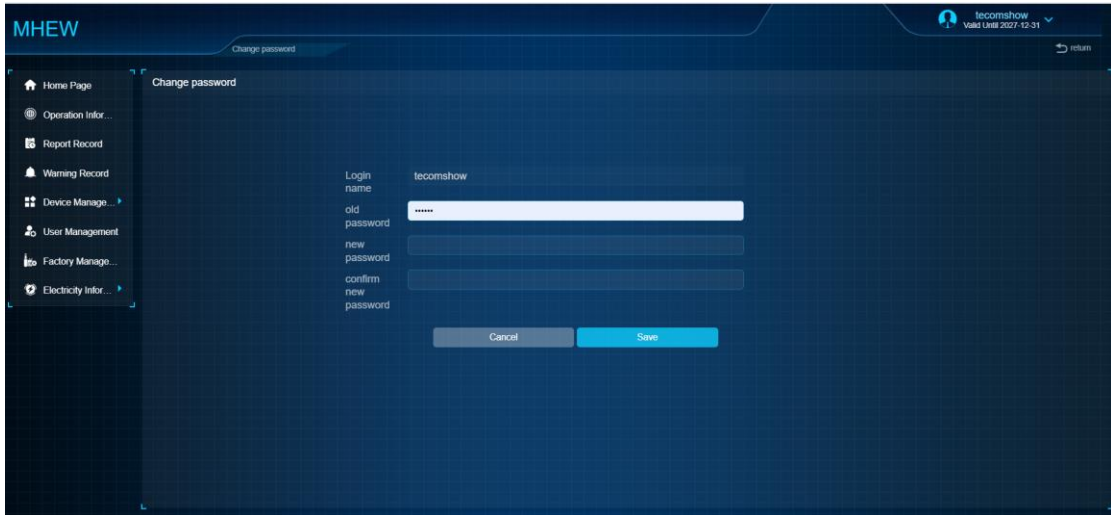
1. Personal Information

Through the dropdown menu at the top right corner, "Personal Information" page can be accessed for the modification of personal details.



2. Change Password

By using the dropdown menu located in the top right corner, the “Change Password” page can be accessed for password modification. The default password for all accounts is 123456. Users must manually update the password after logging in, with a minimum password length of 6 digits. After modification, please ensure careful safekeeping. In case of forgetting the password, please contact Tecom Support Team for password reset.



3. Logout

Log out of this account directly through the drop-down menu at the top right corner and return to the login page.

V. Add Device

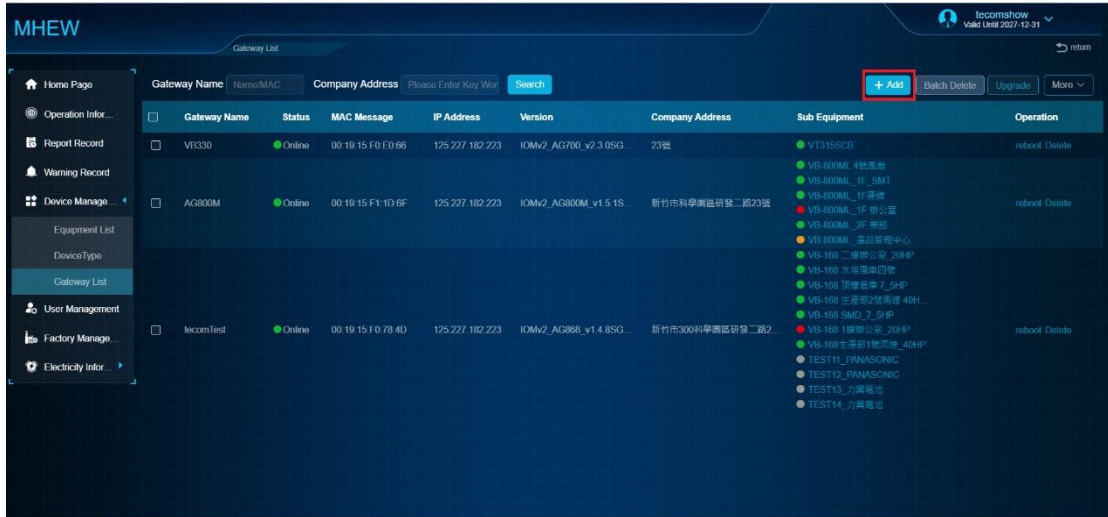


User can connect devices to the platform through AG300-Plus or xDAQ Gateway, depending on which device you get from your supplier.

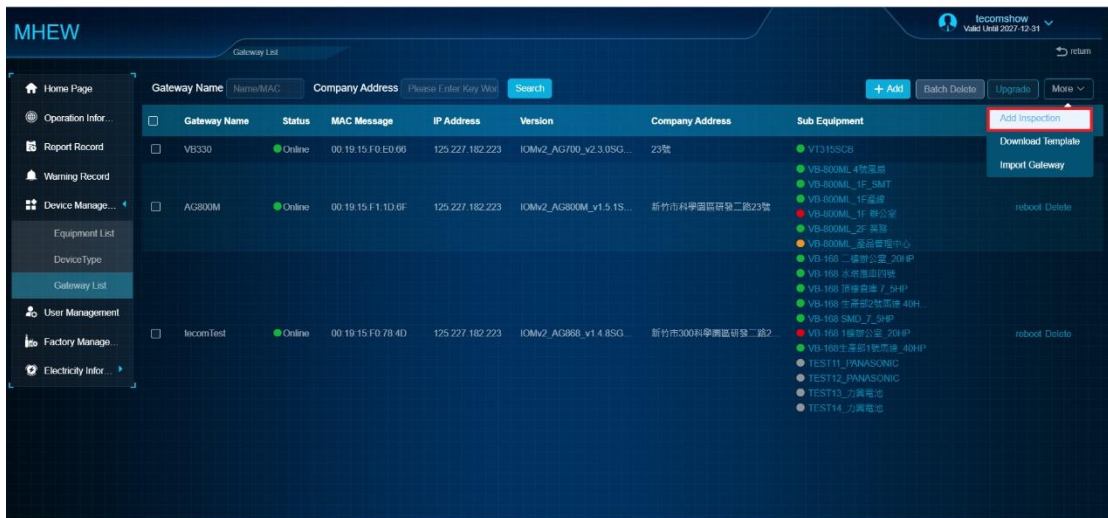
1. Add the MAC address of the Gateway to the platform

a) Add the MAC address of the Gateway manually

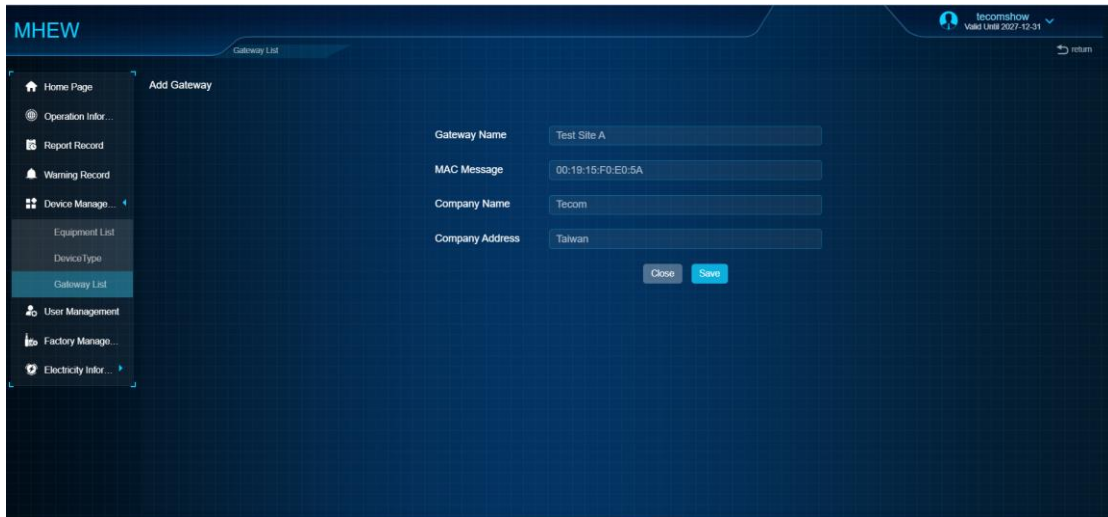
- ① Go to "Device Management" and then "Gateway List" page, click the "Add" button:



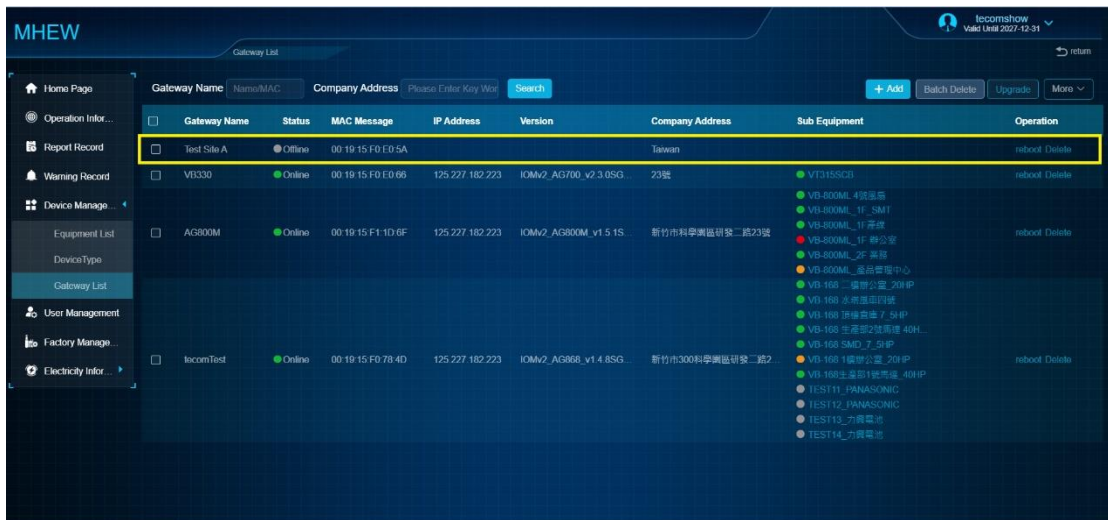
or "Add Inspection":



- ② Add a new Gateway
- Gateway Name: It is an easy-to-identify name for the gateway which can be the same as other gateways. But it cannot be empty.
 - MAC Message: It is not case sensitive and cannot conflict with the MAC address of other gateways already in the system.
 - Company Name, Company Address: Set the company name and company address to which the gateway belongs, for record use only.



Click “Save” and return to the “Gateway List” page. It shows that its subordinate equipment is empty, indicating that no device has been configured on the gateway.



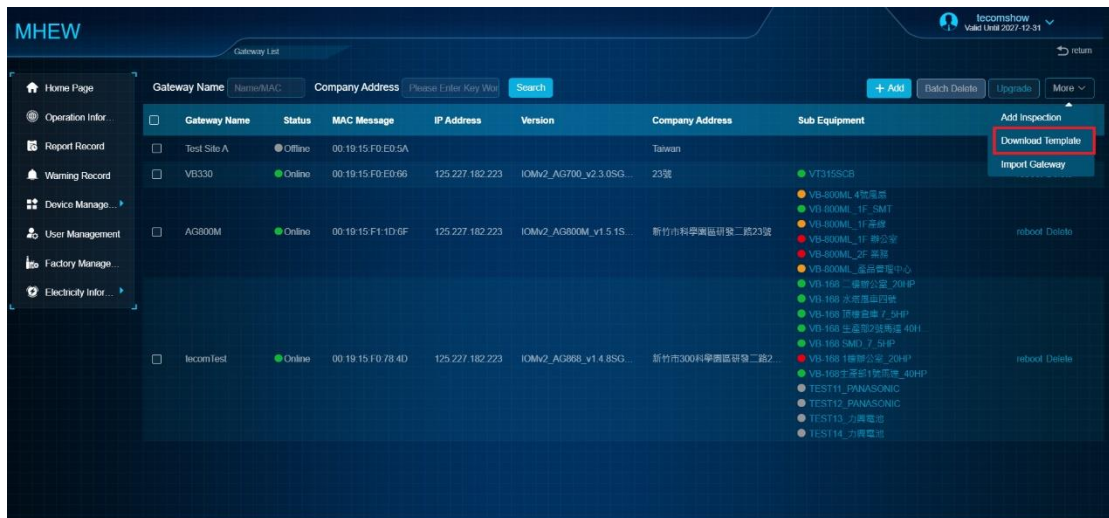
b) Import the MAC addresses of gateways in batches

Besides adding a gateway MAC address manually, gateways' MAC addresses can also be imported in batches through an Excel sheet on the "Gateway List" page.

To create an Excel table, export the Excel file template to the computer through the "Download Template" button, and then input it on the computer and then import it.

① Download Excel Template

Select the "Download Template" button from the "More" drop-down box in the upper right corner to download the Excel template for filling:



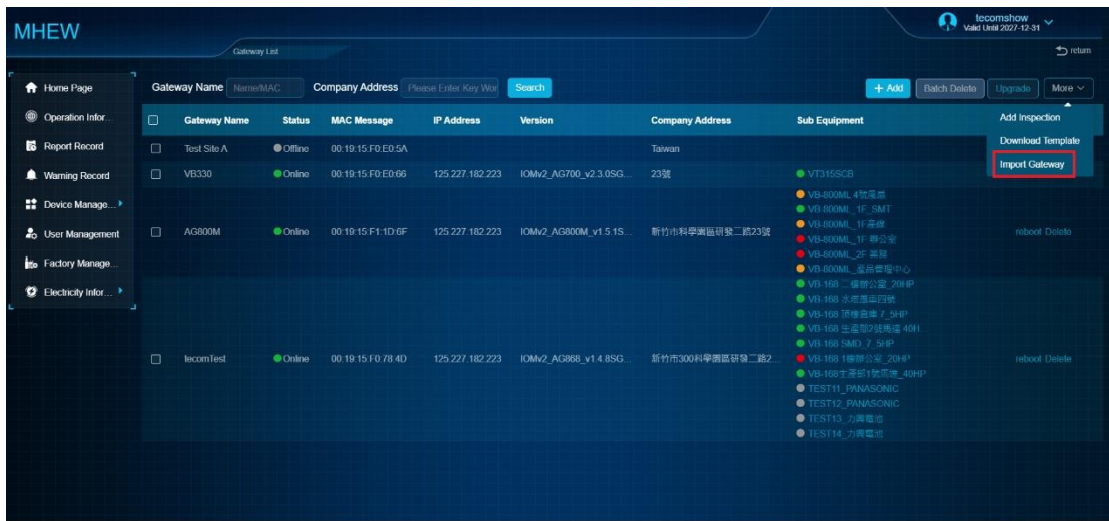
② Fill in the Excel file

Attention:

- Do not modify the header of the Excel file.
- When filling in, the Name (Column A) and MAC address (Column B) are required. The others can be left blank.
- The format of the MAC address is as follows: 00:19:EB:6C:16, both upper and lower case are acceptable.

	A	B	C	D	E	F
1	Do not modify the header					
2	名称	MAC地址	公司名称	版本	公司地址	入库失败原因
3	Test Site B	00:19:15:EB:6C:16				
4	Test Site C	00:19:15:EB:7A:24				
5						
6						
7						
8						

- ③ Import the Excel file
 Select the "Import Gateway" button from the "More" drop-down box in the upper right corner to import the completed gateway Excel table:

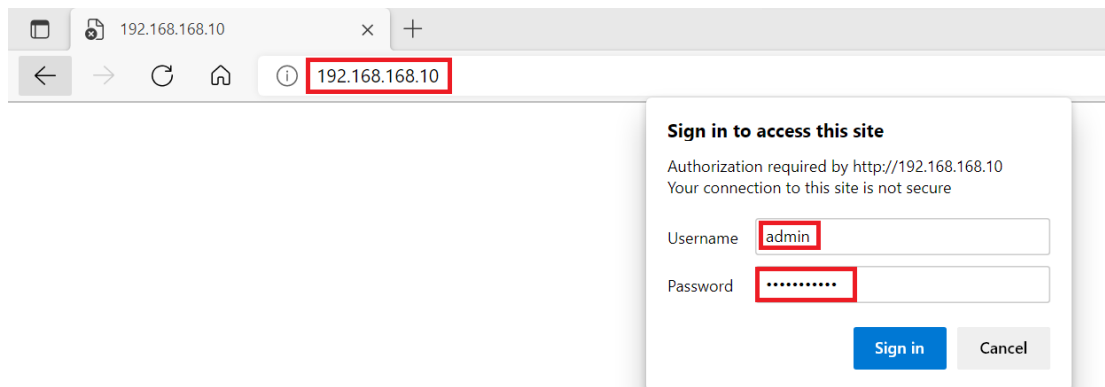


After the Excel file is imported, the newly added gateways are displayed. At this time, their subordinate devices are empty, indicating that no device has been configured on the gateway.

2. Log in to the gateway webpage and configure the gateway

The setting of AG-300 Plus will be briefly introduced here. The setting of other Tecom's Gateway is similar.

- (1) Connect the LAN (Yellow) Port of AG-300 Plus to Ethernet Port of Computer with Ethernet cable. Log in to the webpage of the gateway through a browser (default IP: 192.168.168.10, account: admin, password: IP585xAdmin).



- (2) After login successfully, go to "Device Information" -> "Status Overview" page to confirm the Firmware Version and MAC address are correct:

The screenshot displays the 'Status Overview' page. The left sidebar has 'Device Info' and 'Status Overview' highlighted. The main content area is titled 'Status Overview' and contains the following information:

- System Info**
 - Firmware Version: IOMv2_AG300PLUS_v2.2.2SG_r13335_2020-09-01
 - System Up Time: 0 day 0 hour 6 minutes
 - Host ID: (empty)
- WAN Network**
 - Connected Type: DHCP
 - WAN IP Address: (empty)
 - Subnet Mask: (empty)
 - Default Gateway: (empty) [Check]
 - Primary Domain Name Server: (empty) [Check]
 - Secondary Domain Name Server: (empty) [Check]
 - MAC Address: 00:19:15:EA:E3:0C
- LAN Network**
 - LAN IP Address: 192.168.168.10

- (3) Click "Settings" → "RS485" → "Motor" → "Add" to enter Motor information page.

The screenshot displays the 'Alarm Trigger Time' and 'Device Parameter' pages. The left sidebar has 'Settings' and 'RS485' highlighted. The main content area is titled 'Alarm Trigger Time' and contains the following information:

- Alarm Trigger Time**
 - Temperature Alarm Trigger Time: 20 s
 - Current Alarm Trigger Time: 60 s
 - Vibration Alarm Trigger Time: 60 s
 - Kurtosis Alarm Trigger Time: 60 s
- Device Parameter**
 - Start Address: 30001
- Motor**

Index	Start Address	Name	Work ID	Work Status	Select

[Delete] [Add] [Edit]

(4) In the "Motor" page, configure it according to the actual situation of the motor.

The screenshot shows the "Motor" configuration page. On the left is a navigation menu with options: Device Info, Settings (LAN, WAN, Cloud, Unit Pairing, DI Settings, Device Settings, RS485, Maintenance Info, Port Forwarding, Device Notify Time), Wireless, and System Management. The main content area is titled "Motor" and contains a table of parameters:

Motor	
Name	Site A Motor
Work ID	P7886
Voltage	220 V
Current	8 A
SPEC Power	2.2 KW
Poles	4
Rotational Speed	1720 RPM
Frequency	60 HZ
Power Frequency	60 HZ
Efficiency	89 %

The screenshot shows the "Motor" configuration page with advanced parameters. The navigation menu is the same as in the previous screenshot. The main content area contains the following parameters:

Frequency	<input type="text"/> HZ
Power Frequency	<input type="text"/> HZ
Efficiency	<input type="text"/> %
Frame Number	<input type="text"/>
Bearing Designation	<input type="text"/>
Maintenance Hours	<input type="text"/>
Drive Mode	Direct Drive <input type="button" value="v"/>
Load Status	Full Load <input type="button" value="v"/>
Install Mode	Rigid Install <input type="button" value="v"/>
FAE Information	There is not the FAE information
Engineer Information	There is not the engineer information

At the bottom center, there is a blue "Save" button highlighted with a red rectangle.

- (5) After clicking “Save”, the adding tables for sensors such as “VT200” “TT300”, “VB300 Series” and “ElecMeter” will appear at the bottom of the page. Please click “+” to add “VT200” “TT300”, “VB300 Series” and “ElecMeter”.

Note: It is recommended that the configuration should be according to the actual sensor installed on the motor. If a non-existing sensor is configured for the motor, the status of the motor may be displayed as gray "data incomplete" on the platform.

Engineer Information: There is not the engineer information

Save

VT200

Name	RS485 ID	Line	
			+

TT300

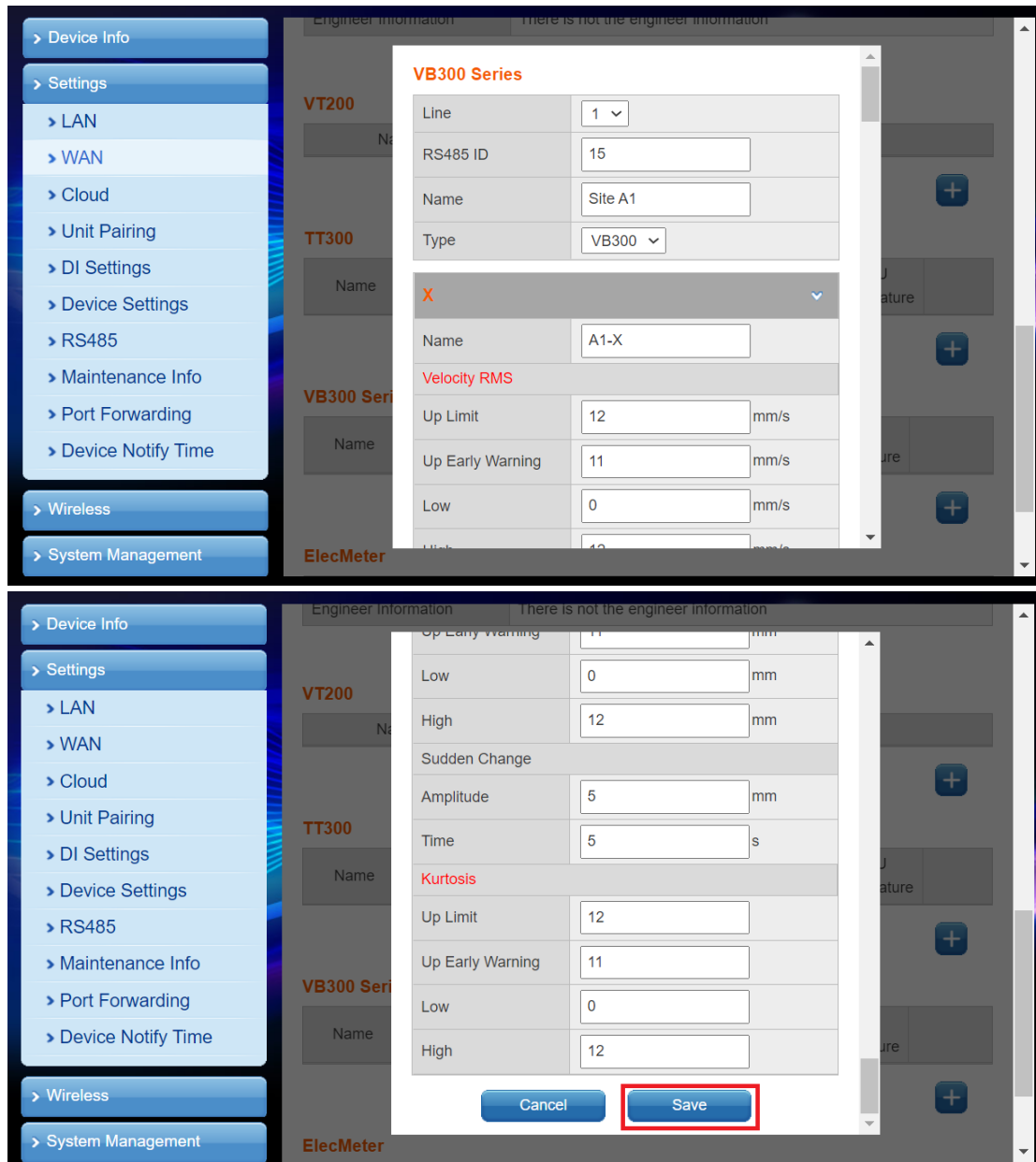
Name	RS485 ID	Line	HW Version	SW Version	CPU Temperature	
						+

VB300 Series

Name	RS485 ID	Line	HW Version	SW Version	CPU Temperature	
						+

ElecMeter

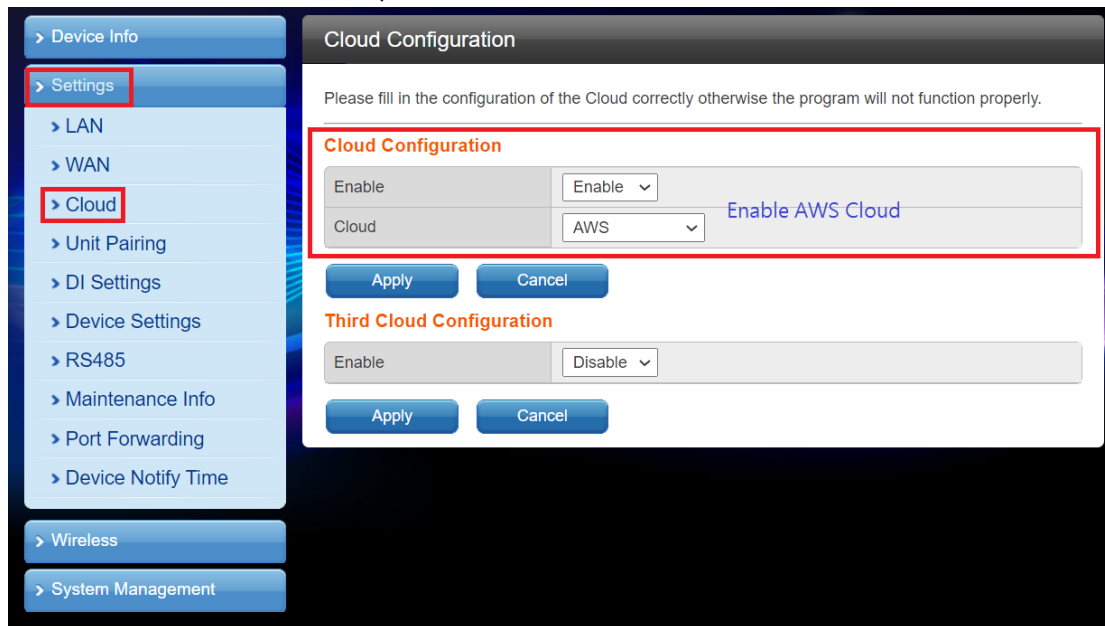
- (6) After entering the page of adding “VT200” “TT300”, “VB300 Series” and “ElecMeter”, fill in the corresponding configuration parameters of the sensor correctly, and click the "Save" button.

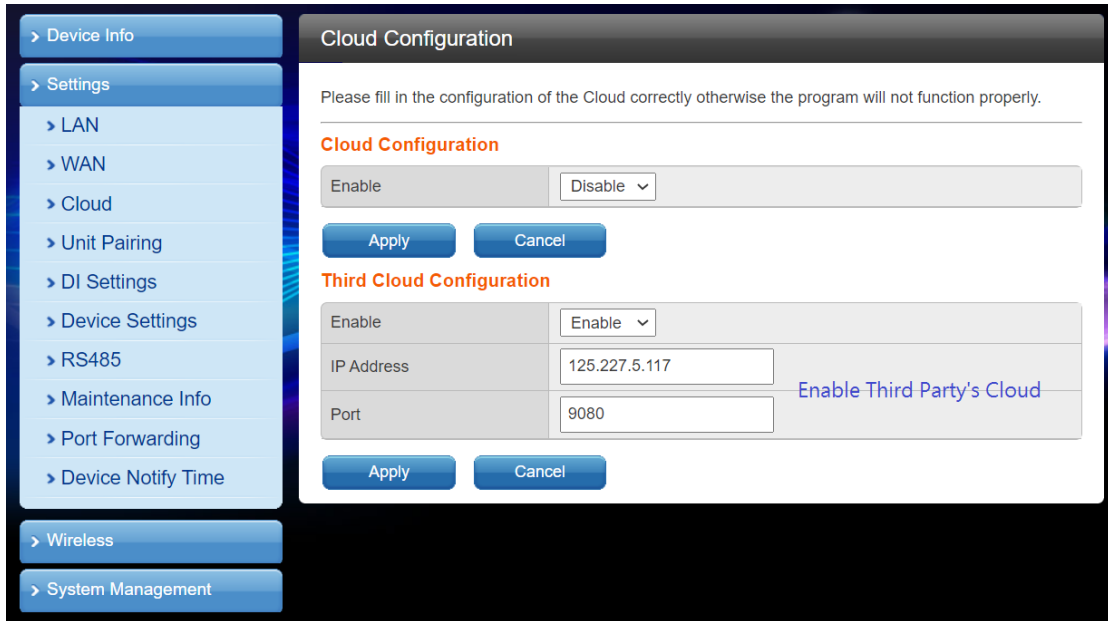


- (7) After configuring “VT200” “TT300”, “VB300 Series” and “ElecMeter”, the successfully added sensor will be shown under the “Motor”.



- (8) Go to "Settings" -> "Cloud" page. Select whether AWS Cloud is enabled or Third Party's Cloud is enabled. If Third's Cloud is enabled, fill in the IP address and port of the Cloud:





(9) At this point, the setting of Gateway has come to an end.

3. Go back to the "Gateway List" page to view the gateway status

After the gateway is successfully set, wait for a while. The name of the device will be shown in the "Subordinate Device" column of the "Gateway List".

If the device is not in a healthy state at the moment, the state of the device will be displayed by colored dots in front of the device name. Different colors represent different states. The following is the detailed meaning and priority relationship of various colors and icons:

Green: Normal (Healthy)






Purple: Sudden Change

Red: Alert

Orange: Pre-warning

Gray: For the device, it means that the data is incomplete. And for the gateway, it means offline.

Sudden Change > Alert > Pre-warning > Data Incomplete > Normal

Icon	Meaning	Note
	Device is in Normal state	Priority of Device state: Sudden Change > Alert > Pre-warning > Data Incomplete > Normal
	Device is in Sudden Change state	
	Device is in Alert state	
	Device is in Pre-warning state	
	Device is in Date Incomplete state	

VI. Operation Information

“Operation Information” is divided into two options: Items Display and Image Display. The Items Display page will display the basic information of the device row by row.

Serial Number	Equipment Name	Area	Equipment ID	Equipment Type	Device Brand	Device Model	Factory name	Report time	Estimation of Power Waste		Estimation of Carbon Emission		
									\$/Hour	\$/Year	KgCO2/Hour	KgCO2/Year	
1	VB-800ML_4號風扇		F8D531...	Motor	TECO	AEEF-ABLE	東訊南港	2023-08-24 09:35:10	3.61	1.68	12591.49	0.28	2067.44
2	VB-800ML_1F 辦公室		D9F086D	Motor			東訊南港	2023-08-24 10:02:37	7.66	3.56	21365.22	0.58	3508.03
3	VB-800ML_1F SMT		D7D80A4	Motor			東訊南港	2023-08-24 10:17:48	5.35	1.54	10813.91	0.25	1775.57
4	VB-800ML_1F 產線		DA34C26	Motor			東訊南港	2023-08-24 09:53:40	7.41	1.59	11891.77	0.26	1952.55
5	VB-800ML_2F 產線		ED0228E	Motor			東訊南港	2023-08-24 10:18:16	7.83	1.76	14071.16	0.29	2310.39
6	VB-800ML_產品管理中心		C06794E	Motor			東訊南港	2023-08-24 10:20:00	7.63	3.55	28392.56	0.58	4661.88
7	TEST11_PANASONIC		FB6970F	Motor			東訊新竹廠	2023-08-24 09:24:45	-	-	-	-	-
8	TEST12_PANASONIC		DA33829	Motor			東訊新竹廠	2023-08-24 10:10:41	-	-	-	-	-
9	TEST13_力興電池		CAA66E	Motor			東訊新竹廠	2023-08-24 09:24:50	-	-	-	-	-
10	TEST14_力興電池		FC722F1	Motor			東訊新竹廠	2023-08-24 09:24:52	-	-	-	-	-

The Image Display page tiles all the factories and the devices. User can view a device by clicking the device picture. Or view a factory by clicking the factory name.

The search box supports fuzzy queries for device names and factory names, which are not case-sensitive. Devices and factories that do not match the search criteria will be filtered out.

The image display page shows a grid of device tiles. Each tile contains a device image and the following information:

- Equipment Name
- Estimation of Power Waste %
- Health indexValue (e.g., H7, H5, H9)
- TemperatureValue (e.g., 43.7, 69.4, 45, 53.5, 44, 49.5)
- VibrationValue(ZAxis) (e.g., 2.310, 5.616, 1.130, 1.434, 4.734)

Click on any device to enter the “Device Information” page for that device:

1. Device Information



All the data and curves in this page will be refreshed every 10 seconds.

2. Historical Data



The Historical Data page displays the latest 300 data records of the device. Users can also query the data of other time periods according to their needs. If the selected time period is longer, 300 data records are evenly selected for display within this period of time.

Users can also choose Daily report and Monthly report. The daily report shows 24 data records of the day (average of hourly data), and the monthly report shows 28~31 data records of the current month (average of daily data).

3. Comparative Analysis

The Comparative Analysis page allows user to select two reports to be compared. Each data point of the two reports will be displayed in the same graph. The orange curve represents older data and the blue curve represents newer data.

The screenshot shows the 'Comparative analysis' tab in the MHEW interface. At the top, a search bar contains the text '臺訊南科 VB-800ML_1F 產線 2023-08-24 10:54:00 VS 臺訊南科 VB-800ML_1F 產線 2023-08-24 14:55:40'. Below this is a table with columns for Time, Vibration, Temp, Voltage, Current, Pressure, Discharge, water, and Operation. The 'Operation' column contains 'To Compare' links, some of which are highlighted with red boxes.

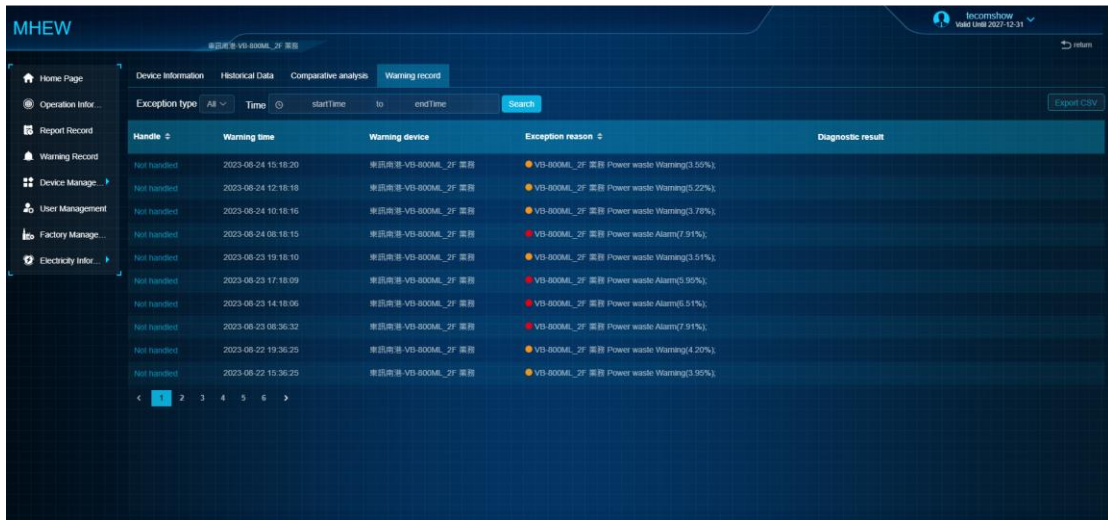
Time	Vibration	Temp	Voltage	Current	Pressure	Discharge	water	Operation
2023-08-24 14:55:40	Normal	Normal	-	-	-	-	-	To Compare
2023-08-24 14:46:59	Normal	Normal	-	-	-	-	-	To Compare
2023-08-24 13:55:14	Normal	Normal	-	-	-	-	-	To Compare
2023-08-24 13:46:57	Normal	Normal	-	-	-	-	-	To Compare
2023-08-24 12:54:51	Normal	Normal	-	-	-	-	-	To Compare
2023-08-24 12:46:57	Normal	Normal	-	-	-	-	-	To Compare
2023-08-24 11:54:27	Normal	Normal	-	-	-	-	-	To Compare
2023-08-24 11:46:57	Normal	Normal	-	-	-	-	-	To Compare
2023-08-24 10:54:06	Normal	Normal	-	-	-	-	-	To Compare
2023-08-24 10:46:56	Normal	Normal	-	-	-	-	-	To Compare

The screenshot shows the detailed 'Comparative analysis' page. It is divided into two main sections: 'General Equipment Information1' and 'General Equipment Information2'. Below these are two line graphs. The left graph compares 'Health Index' (orange line) and 'Health Index_2' (blue line) over time. The right graph compares 'Power waste' (orange line) and 'Power waste_2' (blue line) over time. Both graphs show data points for various dates in August 2023.

Category	Item	Value
General Equipment Information1	Company Name	TECCOM
	Company Address	新竹市科學園區研發二路23號
	Device Brand	
	Device Model	
	Equipment Name	VB-800ML_1F 產線
	Work ID	DA3MC269C7E7
	Current	20 A
	SPEC Power	15 kW
	Poles	3
	Rotational Speed	1750 RPM
	Frequency	29 Hz
	Power Frequency	60 Hz
	Efficiency	99 %
	Frame Number	188LC
	Bearing Designation	1
Maintenance Hours		
Drive Mode	Direct Drive	
Full Load		
Level Status	None	
Control Panel	None	
Electricity price	3.1	
Carbon emission factor	0.589	
Estimation of Power/Waste VB	VB-800ML_1F 產線	
Vibration Standard Value(Excellent)	0.18-0.71 mm/s	
Vibration Standard Value(Good)	0.71-1.80 mm/s	
Vibration Standard Value(Acceptable)	1.80-4.50 mm/s	
Vibration Standard Value(Unacceptable)	4.50-71.0 mm/s	
Vibration Rotation Frequency	29.17 Hz	
General Equipment Information2	Company Name	TECCOM
	Company Address	新竹市科學園區研發二路23號
	Device Brand	
	Device Model	
	Equipment Name	VB-800ML_1F 產線
	Work ID	DA3MC269C7E7
	Current	20 A
	SPEC Power	15 kW
	Poles	3
	Rotational Speed	1750 RPM
	Frequency	29 Hz
	Power Frequency	60 Hz
	Efficiency	99 %
	Frame Number	188LC
	Bearing Designation	1
Maintenance Hours		
Drive Mode	Direct Drive	
Full Load		
Level Status	None	
Control Panel	None	
Electricity price	3.1	
Carbon emission factor	0.589	
Estimation of Power/Waste VB	VB-800ML_1F 產線	
Vibration Standard Value(Excellent)	0.18-0.71 mm/s	
Vibration Standard Value(Good)	0.71-1.80 mm/s	
Vibration Standard Value(Acceptable)	1.80-4.50 mm/s	
Vibration Standard Value(Unacceptable)	4.50-71.0 mm/s	
Vibration Rotation Frequency	29.17 Hz	

4. Warning Record

The Warning Record page displays a list of alarm records generated by the device. User can search according to the alarm type, or directly specify the alarm time to search.



Click any alarm record to view the alarm details:



VII. Report Record

The Report Record page displays a list of reports of all equipment. User can search for reports of the corresponding factory or equipment by Alarm type and Equipment name. This page supports the CSV export function.

Time	Factory name	Equipment Name	Vibration	Temp	Voltage	Current	Pressure	Discharge	water	Operation
2023-08-24 16:20:57		VT315SCB	Warning	—	—	—	—	—	—	To Compare
2023-08-24 16:20:03	東訊新竹廠	VB-168 S...	Normal	Normal	—	—	—	—	—	To Compare
2023-08-24 16:20:00	東訊新竹廠	VB-168 生...	Normal	Normal	—	—	—	—	—	To Compare
2023-08-24 16:19:56		VT315SCB	Warning	—	—	—	—	—	—	To Compare
2023-08-24 16:19:53	東訊新竹廠	VB-168 匯...	Normal	Normal	—	—	—	—	—	To Compare
2023-08-24 16:19:50	東訊新竹廠	VB-168 二...	Normal	Normal	—	—	—	—	—	To Compare
2023-08-24 16:18:54		VT315SCB	Warning	—	—	—	—	—	—	To Compare
2023-08-24 16:18:29	東訊南港	VB-800M...	Normal	Normal	—	—	—	—	—	To Compare
2023-08-24 16:18:21	東訊南港	VB-800M...	Normal	Normal	—	—	—	—	—	To Compare
2023-08-24 16:17:53		VT315SCB	Warning	—	—	—	—	—	—	To Compare

Click any report record to view the details of a single report:

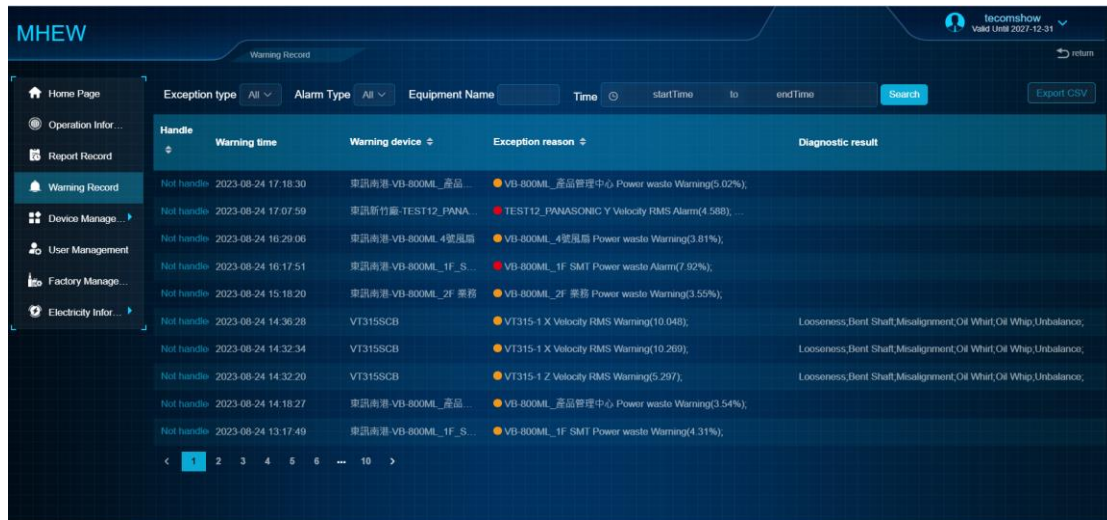


VIII. Warning Record

The Warning Record page displays all warning records of all devices. User can search for warning records according to Alarm type, Equipment name, Report time and other conditions.

The colored dot in front of the abnormal cause indicates the highest alarm severity in this alarm.

Sudden Change > Alert > Pre-warning.



Click any warning record to enter the warning record details page:

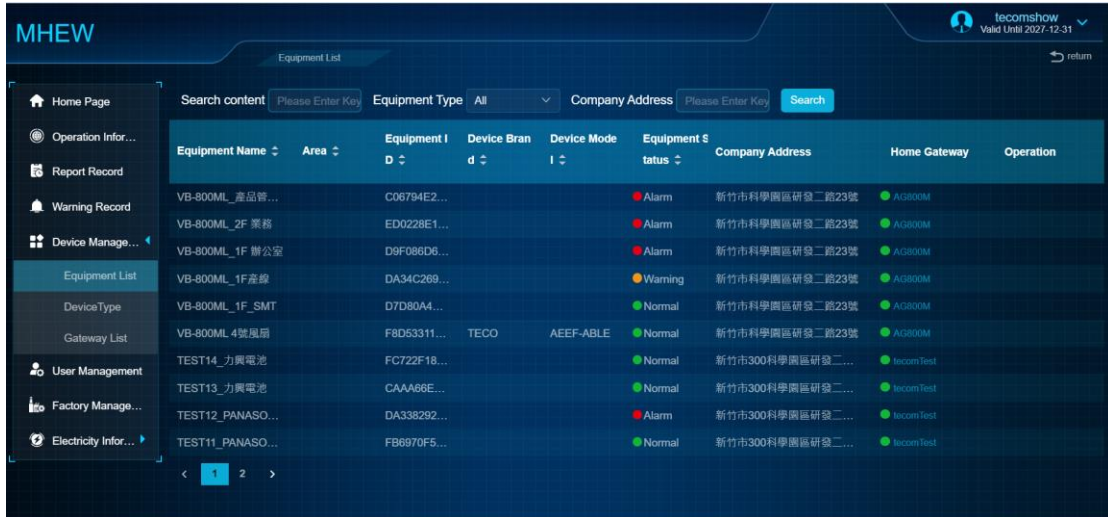


- The General Equipment Information can be minimized.
- The warning reason area will display the specific point information of the current warning.
- If it is a vibration type warning, the "Analysis and Diagnosis" button will also be displayed. Click to enter the Analysis and Diagnosis page.

IX. Device Management (Not visible by general users)

1. Equipment List

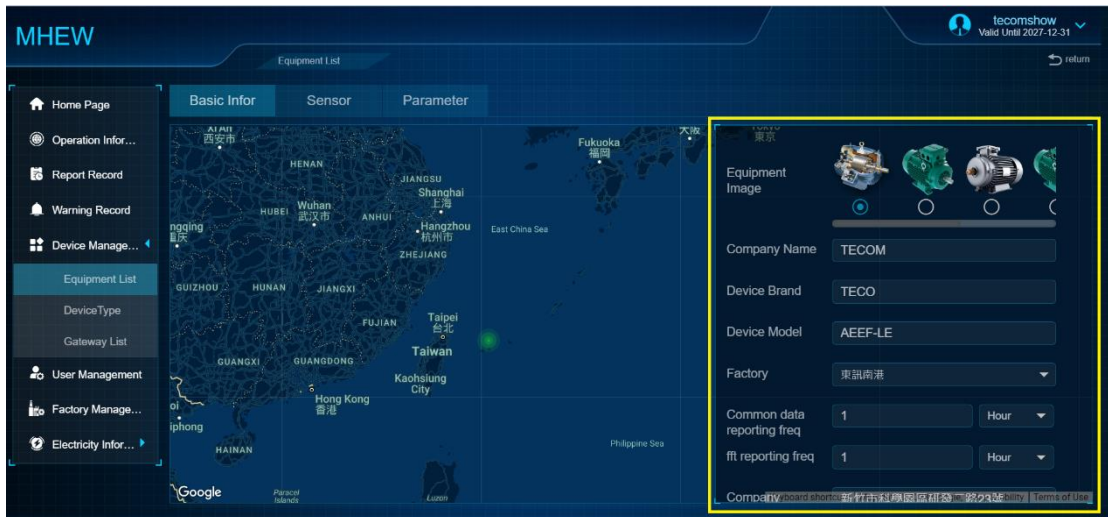
The Equipment List page displays all the devices mounted under the gateway created:



Click on each row to edit the equipment:

a) Basic Information

The configuration of the basic information here is similar to the configuration on the gateway. Please configure it according to the actual situation of your motor.



b) Sensor

The configuration here is similar to the configuration on the gateway, which is used to set the Line, Name, RS485 ID and other information of the Sensor. Please configure it according to the actual situation of the motor.

The screenshot shows the 'Sensor' configuration page in the MHEW web interface. The page is titled 'Vibration Sensor1' and is part of the 'Equipment List' section. The configuration fields are as follows:

Field	Value
Line	VB-800ML_1F SMT
Name	Bluetooth
RS485 ID	D7D80A4C3708
Type	VB800
Sleep Duration	5 min
Sampling Interval	60 min
PMS Status	Enable

c) Parameter

The configuration here is similar to the configuration on the gateway. Please configure it according to the actual situation of your motor.

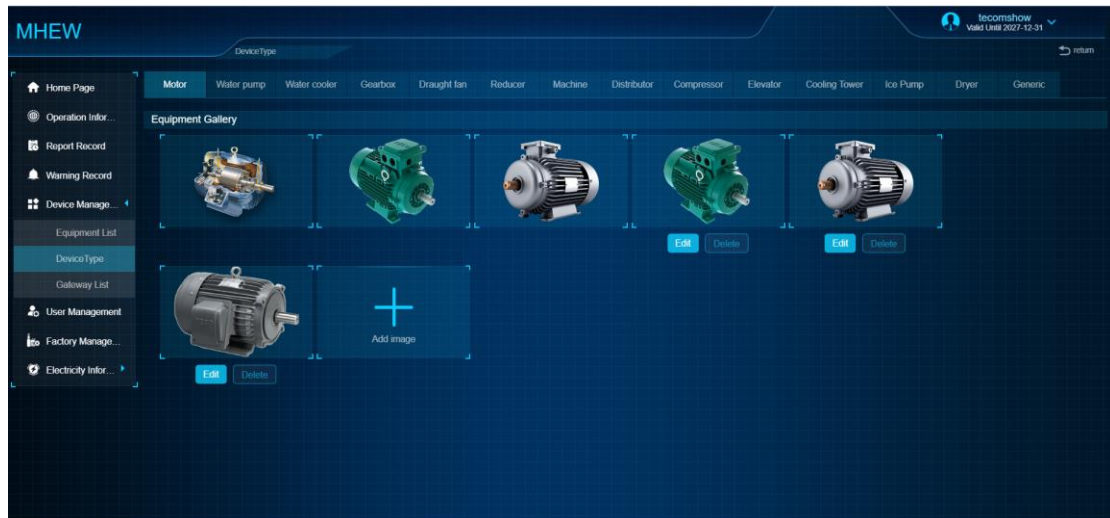
The screenshot shows the 'Parameter' configuration page in the MHEW web interface for the 'VB-800ML_1F SMT' sensor. The page is divided into two main sections: 'RMS Velocity' and 'RMS Acceleration'. The 'RMS Velocity' section includes a table for 'AI Smart Learning' and a table for 'RMS Velocity' parameters. The 'RMS Acceleration' section includes a table for 'RMS Acceleration' parameters. The 'AI Smart Learning' table is as follows:

	X Axis	Y Axis	Z Axis
Name	X	Y	Z
Up Limit(mm/s)	7.2	7.2	7.2
recommended	0.405	0.312	0.413
Up Early Warning(mm/s)	4.2	4.2	4.2
recommended	0.351	0.270	0.358
Down Limit(mm/s)			
Down Early Warning(mm/s)			
Low(mm/s)	0	0	0
High(mm/s)	12	12	12
Sudden Change Amplitude(mm/s)			
Sudden Change Time(s)			

The 'RMS Acceleration' section includes a table for 'RMS Acceleration' parameters:

	X Axis	Y Axis	Z Axis
Up Limit(mm/s²)			
recommended	159.462	228.318	128.464
Up Early Warning(mm/s²)			
recommended	138.200	197.876	111.336
Down Limit(mm/s²)			
Down Early Warning(mm/s²)			
Low(mm/s²)			
High(mm/s²)			
Sudden Change Amplitude(mm/s²)			
Sudden Change Time(s)			

2. Device Type



The platform supports a variety of devices such as motors, water pumps, chillers, etc. Users can upload their own pictures for each device.

Note: Support .jpg, .png, .gif and other image formats, but the size cannot exceed 400KB.

The picture in the Device Type is used to select a representative picture for the equipment in the Equipment List editing. For example, if a specific picture is selected for the equipment VB-800ML_1F_SMT, the picture display page of the operation information will represent the equipment with this picture:

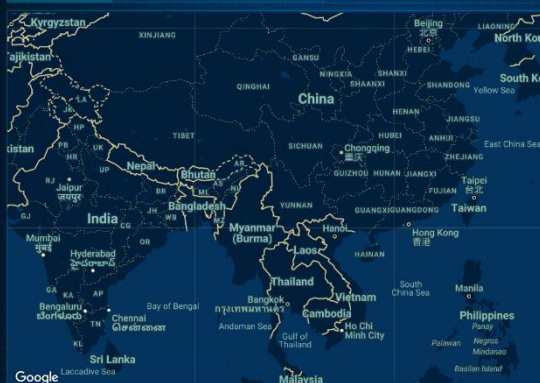


MHEW tecomshow
Valid Until 2027-12-31


Equipment List

- Home Page
- Operation Infor...
- Report Record
- Warning Record
- Device Manage...
- Equipment List
- DeviceType
- Gateway List
- User Management
- Factory Manage...
- Electricity Infor...

Basic Infor Sensor Parameter



Equipment Image



Company Name:

Device Brand:

Device Model:

Factory:

Common data reporting freq: Hour

fft reporting freq: Hour

Company board shorts: [新竹市科學園路研發二路49號](#) [Items of Use](#)

MHEW tecomshow
Valid Until 2027-12-31

Operation Information

- Home Page
- Operation Infor...
- Report Record
- Warning Record
- Device Manage...
- Equipment List
- DeviceType
- Gateway List
- User Management
- Factory Manage...
- Electricity Infor...

Image display Items display Map display

Type: Search content:

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<p style="background-color: #28a745; color: white; text-align: center; padding: 2px;">VB-800ML_1F_S...</p> <p>Estimation of Power Waste 0.00 %</p> <p>Health indexValue H9</p> <p>TemperatureValue 36.5 °C</p>	<p style="background-color: #28a745; color: white; text-align: center; padding: 2px;">VB-800ML_1F產線</p> <p>Estimation of Power Waste 0.00 %</p> <p>Health indexValue H9</p> <p>TemperatureValue 59.3 °C</p>	<p style="background-color: #dc3545; color: white; text-align: center; padding: 2px;">VB-800ML_1F 號...</p> <p>Estimation of Power Waste 7.80 %</p> <p>Health indexValue H2</p> <p>TemperatureValue 47.2 °C</p>	<p style="background-color: #dc3545; color: white; text-align: center; padding: 2px;">VB-800ML_2F 業務</p> <p>Estimation of Power Waste 7.91 %</p> <p>Health indexValue H7</p> <p>TemperatureValue 52.8 °C</p>
<p style="background-color: #dc3545; color: white; text-align: center; padding: 2px;">VB-800ML_產品...</p> <p>0.309 mm/s</p> <p>Estimation of Power Waste 6.50 %</p> <p>Health indexValue H6</p> <p>TemperatureValue 42 °C</p> <p>VibrationValue(ZAxis)</p>	<p style="background-color: #28a745; color: white; text-align: center; padding: 2px;">VB-800ML 4號溫庫</p> <p>0.257 mm/s</p> <p>Estimation of Power Waste 0.60 %</p> <p>Health indexValue H7</p> <p>TemperatureValue 37.9 °C</p> <p>VibrationValue(ZAxis)</p>	<p>VibrationValue(ZAxis)</p> <p>5.377 mm/s</p>	<p>VibrationValue(ZAxis)</p> <p>1.244 mm/s</p>

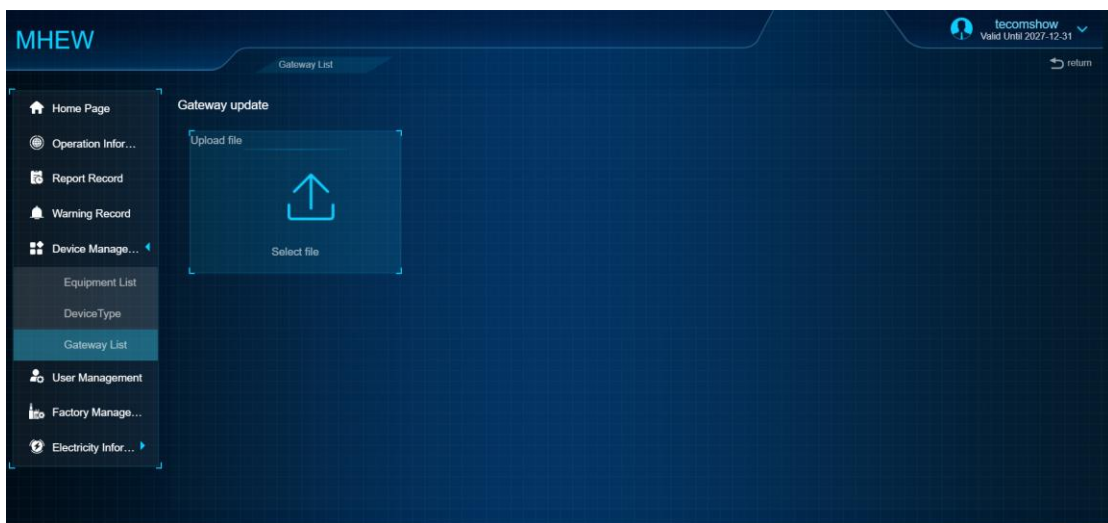
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3. Gateway List

The gateway list page displays all gateways created. In addition to adding gateways, clicking on each row to configure gateways and upgrade gateways can also be performed.



If none of gateway is checked, gateway version can be uploaded after click the "Upgrade" button.



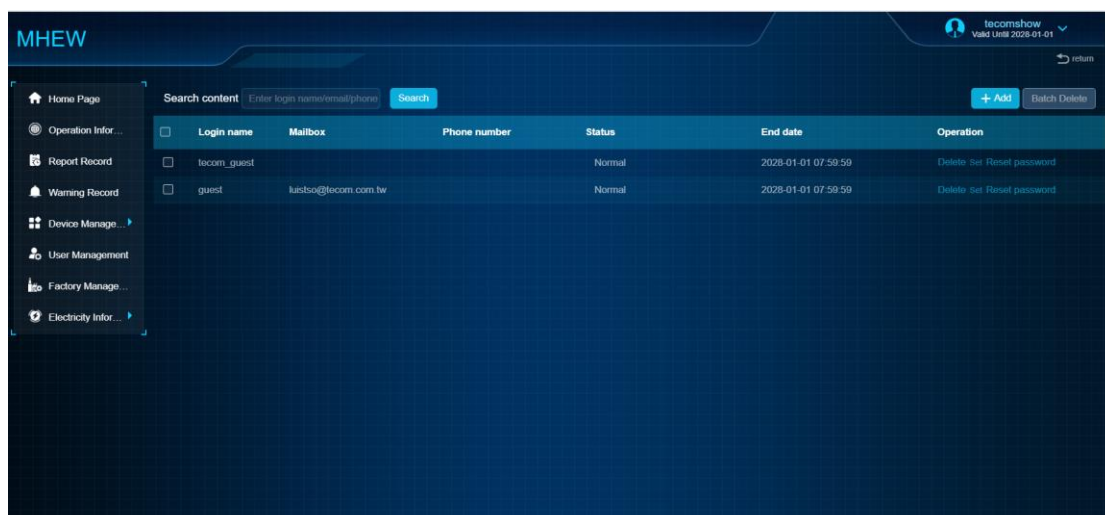
Check one or more gateways and then click the "Upgrade" button to upgrade the software version for the selected gateway(s).

Note: Only online gateways can be upgraded.

VI. User Management (Not visible by normal users)

In addition to creating new users, admin can view the current resource usage of the system on the User Management page.

Note: Since admin has already occupied a number of users, the number of users that the admin will see on this page is one less than the "created account".



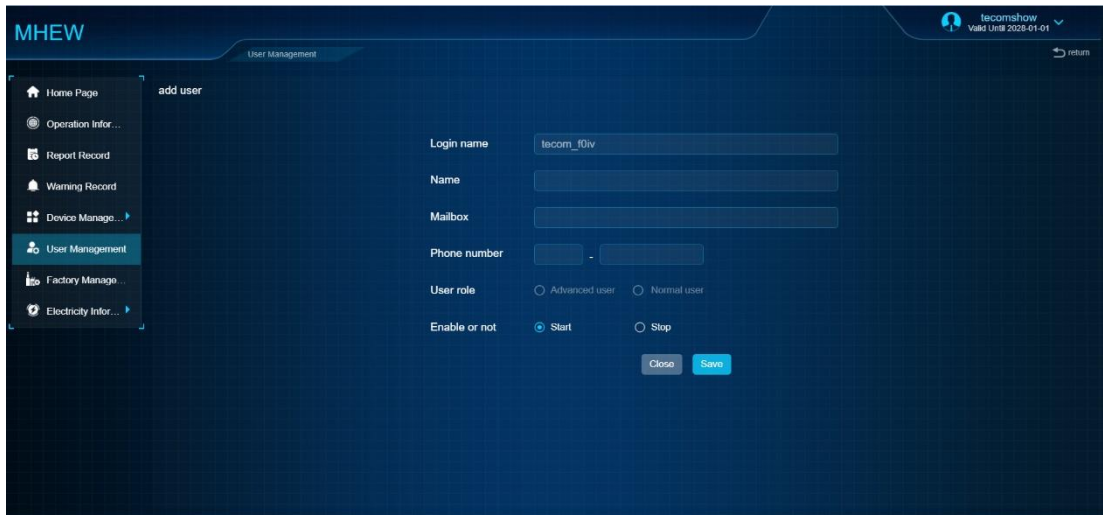
1. Admin user

Admin user can create advanced users. Advanced users can set the number of gateways allowed to be created, set a deadline for advanced users and normal users, and "enable" or "disable" a particular user.

Note: To ensure the rights and interests of device owners, all important materials such as gateways, devices, factories, and users created by users can only be managed by themselves and cannot be managed by other users (including admin). However, users can authorize the devices and factories under their own names to the users they created for browsing access.

Once the user is deactivated or the valid date has been expired, the platform will deny the user's login.

The total number of gateways that all users can create is the number of licenses ordered when purchasing.



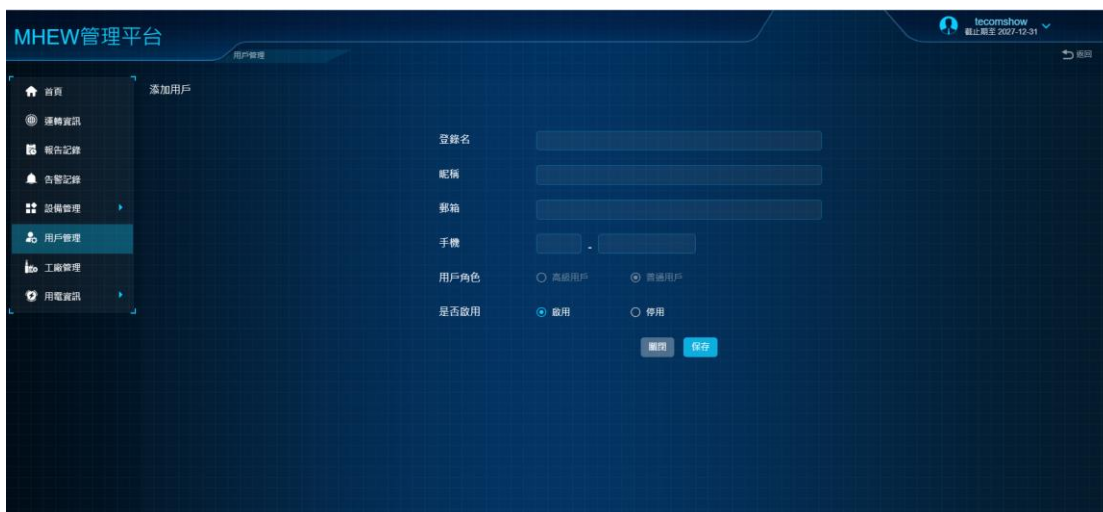
2. Advanced User

Advanced user can create general users. The expiry date of the created general users is the same as their own expiry date. Advanced users can also "enable" or "disable" a general user.

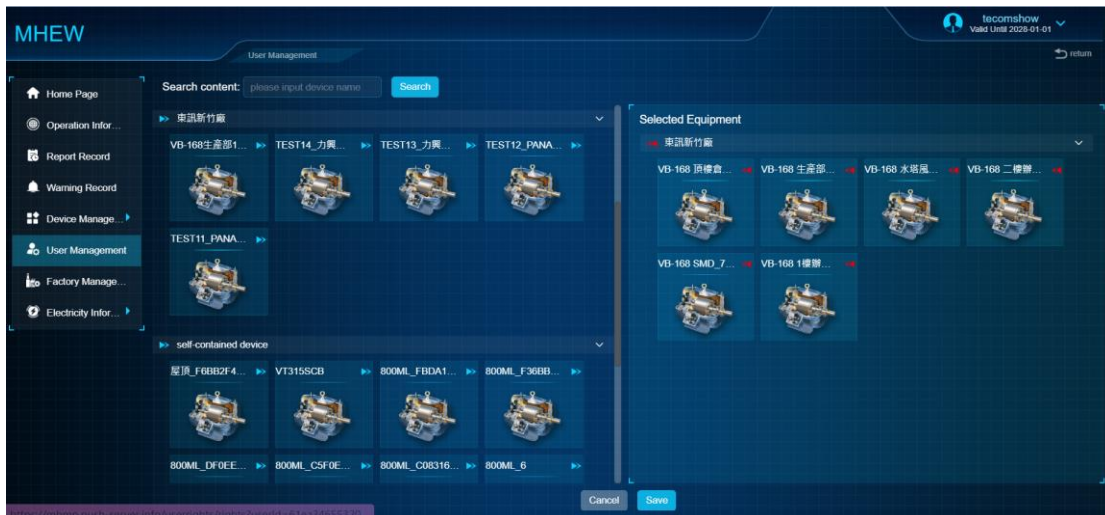
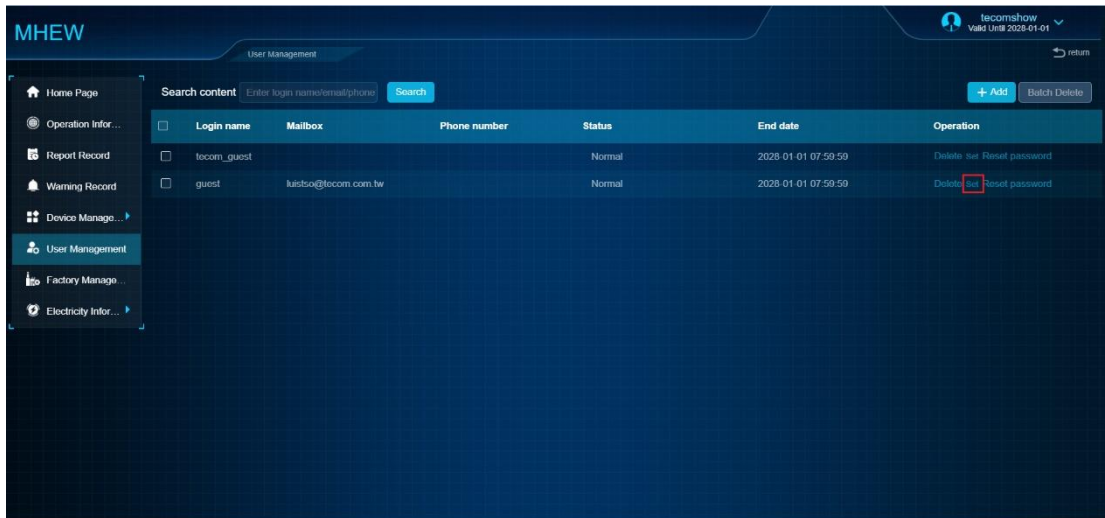
Note: To ensure the rights and interests of device owners, all important materials such as gateways, devices, factories, and users created by users can only be managed by themselves and cannot be managed by other users (including admin). However, users can authorize the devices and factories under their own names to the users they created for browsing access.

Once the user is deactivated or the valid date has been expired, the platform will deny the user's login.

The total number of gateways that all users can create is the number of licenses ordered when purchasing.



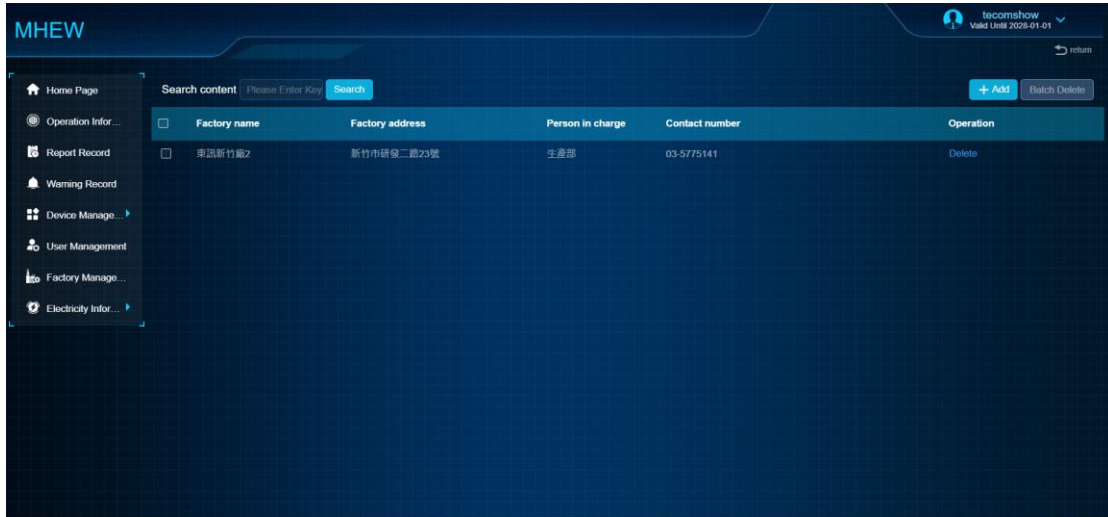
Click "Set", permissions and authorization of devices & factories can be set for users under their own name to the corresponding users for browsing access:



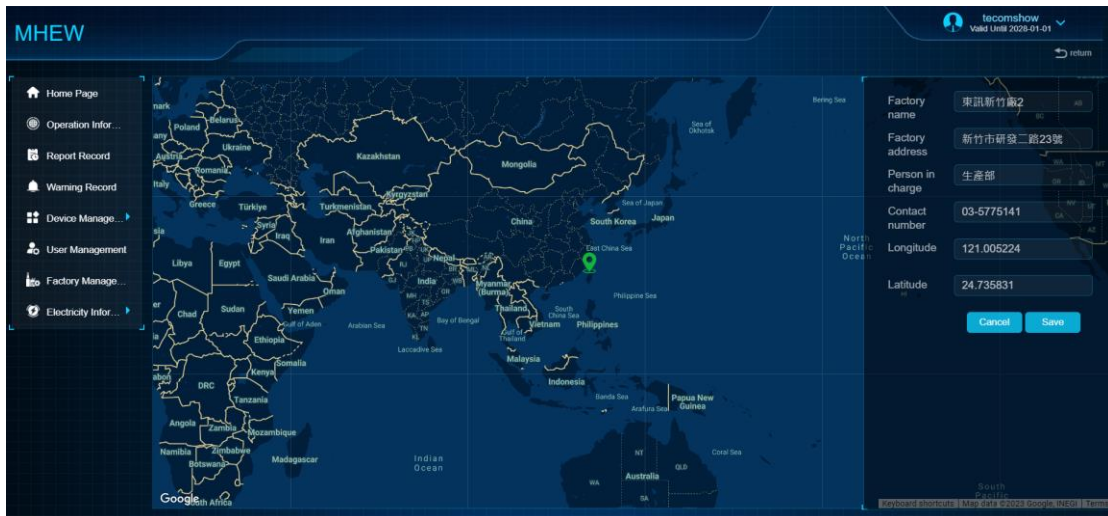
Note: When the device on the left is selected and moved to the right, the device browsing right is authorized to the user. The factory browsing right to which the device belongs to is also authorized to the user at the same time.

VII. Factory Management (Not visible by normal users)

New factories can be created on the Factory Management page. The factory management page can only see the factories created by user's own:



Click on the factory row to be edited:

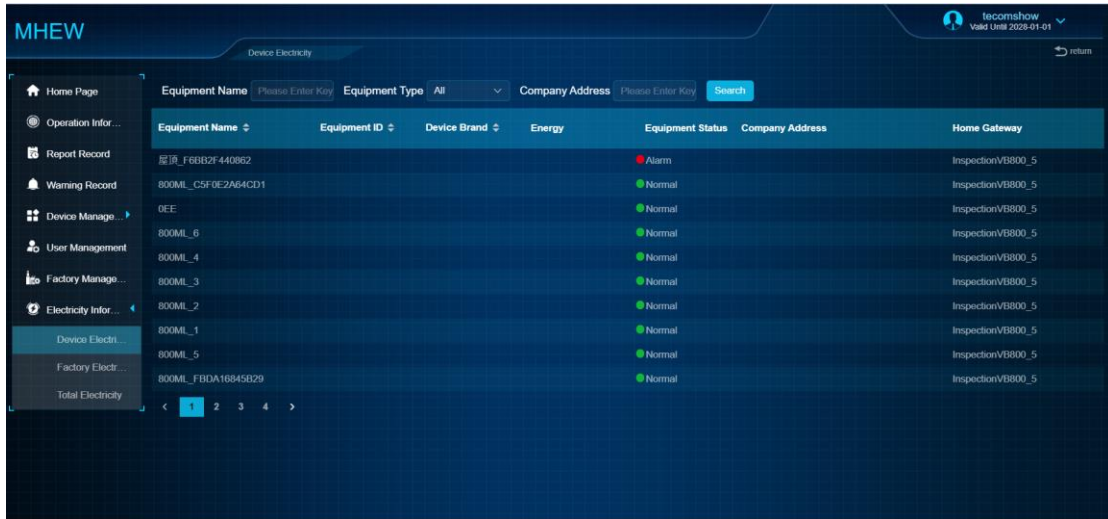


Note: Deleting a factory will not delete any devices under the factory. It will only cause all devices under it to become independent devices.

VIII. Electricity Information

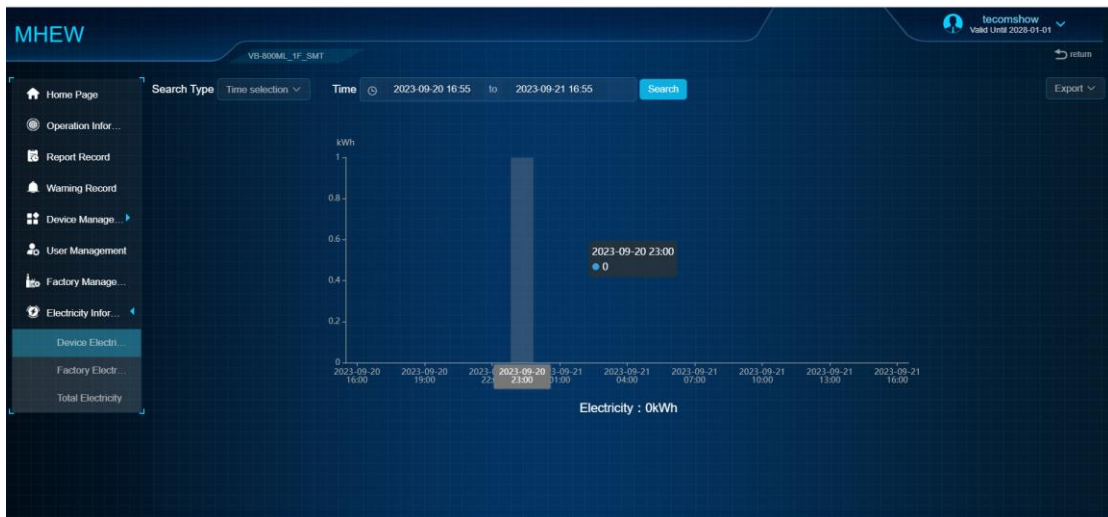
1. Device Electricity

The Device Electricity page displays all the devices mounted under the gateway configured:



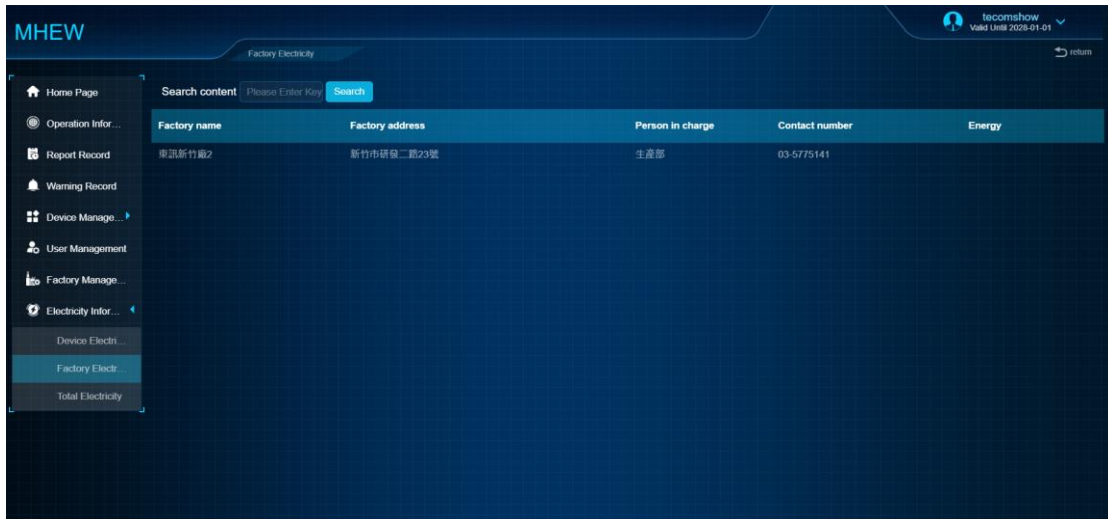
Click to enter a device and select “Search Type”. Enter the time range to query the power consumption histogram of the device within the time range.

There is an export button at the upper right corner. The queried power consumption data can be exported to PDF or Excel.



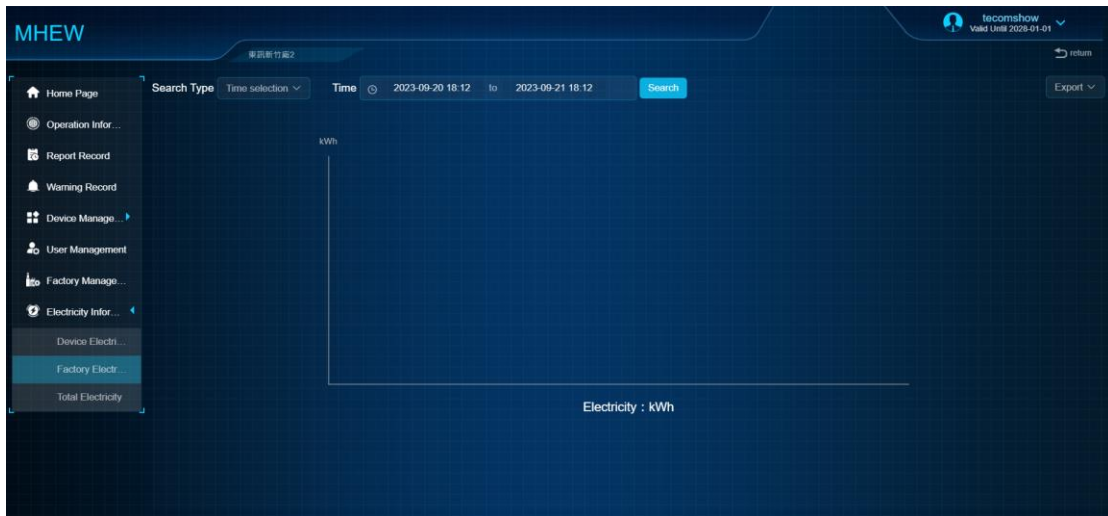
2. Factory Electricity

The Factory Electricity page shows a list of all created factories:



Click to enter a factory and select “Search Type”. Enter the time range to query the power consumption histogram of the factory within the time range.

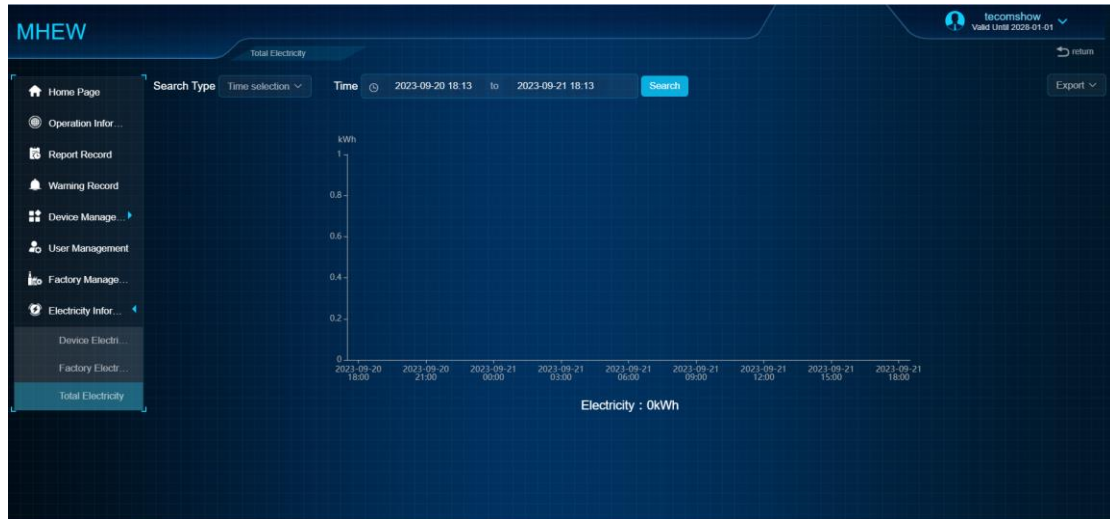
There is an export button at the upper right corner. The queried power consumption data can be exported to PDF or Excel.



3. Total Electricity

Select “Search type” for total power consumption. Enter a time range to query the power consumption histogram of all devices within the time range.

There is an export button at the upper right corner. The queried power consumption data can be exported to PDF or Excel.



IX. Alert Pop-up

As long as any device generates an alert, a real-time pop-up alert will pop up at the lower right corner no matter which operation is performing. The pop-up window will exit by itself after 10 seconds.

