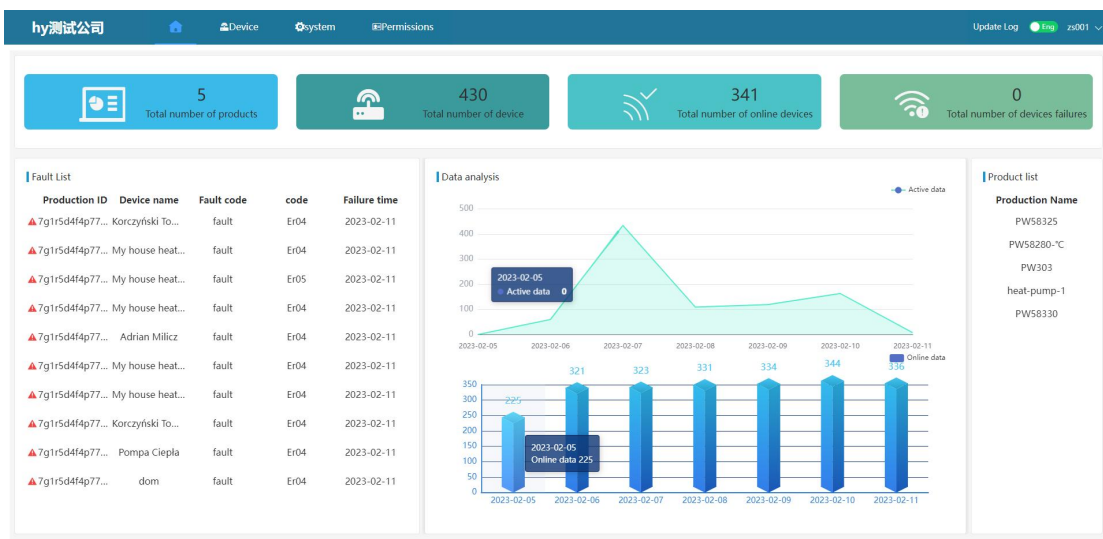


IOT(Monitoring) platform

EN

User manual

User manual of IOT(Monitoring) platform



General description:

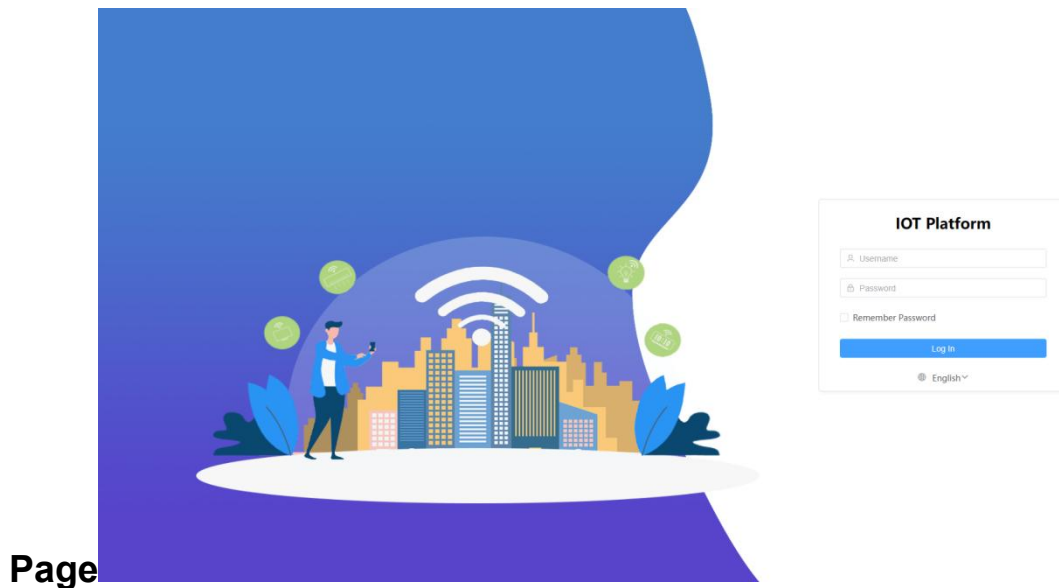
Monitoring system, reliable and rapid monitoring and management of heat pump equipment power, environment, operating status and other data, timely ring heat pump equipment field events and notify the equipment management personnel, to achieve unattended heat pump and after-sales management, for heat pump after-sales maintenance timeliness, scientific decision-making and product optimization to provide strong technical support.

The main functions of the platform include: , , ,

- centralized monitoring.
- visual management.
- intelligent linkage.
- fault alarm.
- report analysis.
- operation and maintenance management, etc.

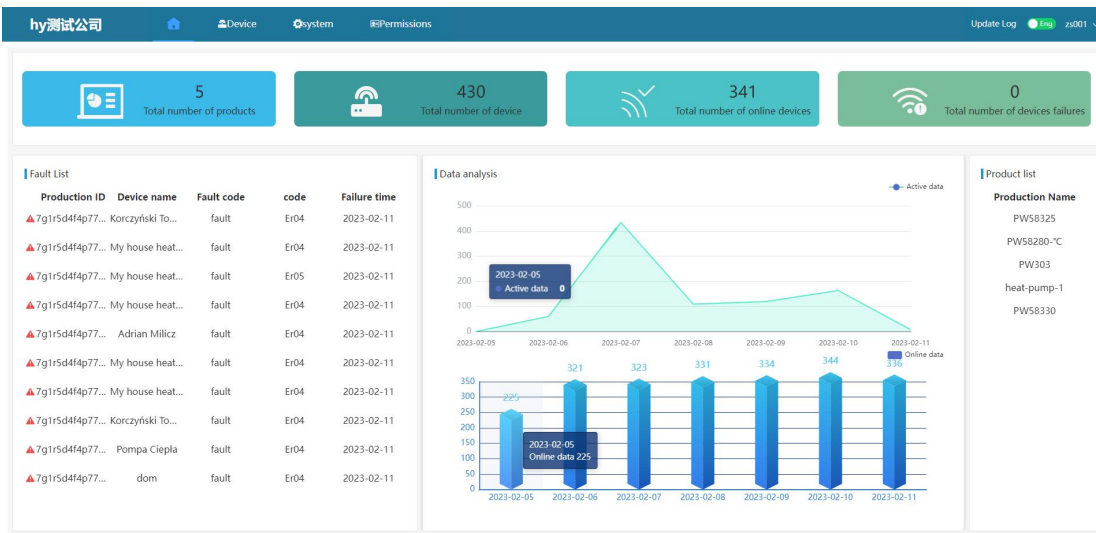
1 Log in

1.1 User Login



Remark : You can log in to the platform by entering your account and password at the corresponding location.(Please get the initial account and password from manufacturer)

Main interface Page



1.2 Set a new password

How do I set my new login password?

1.2.1 Access to Set password page

Enter Set password page from ZS001 in the upper right corner.



1.2.2 Enter a new password

Enter the password and confirm the password in the appropriate location.

Change Password



* Old password

Please Enter Old Password

* New password

Please Enter New Password

* Confirm the new password

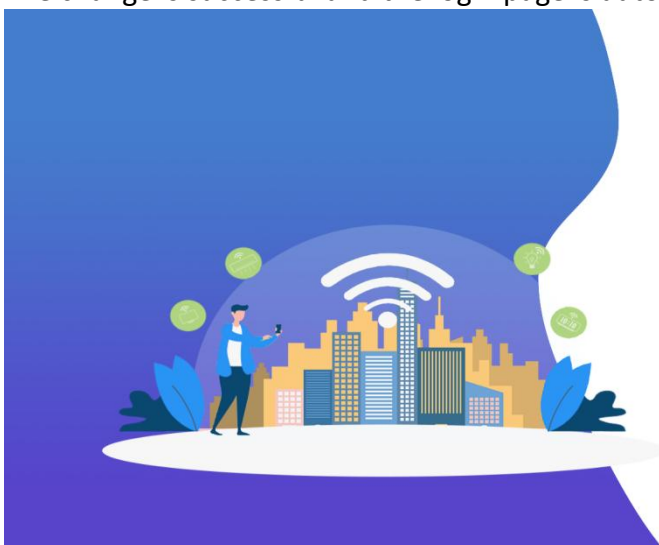
Please Confirm New Password

Confirm

Cancel

1.2.3 Modified successfully

The change is successful and the login page is automatically displayed.



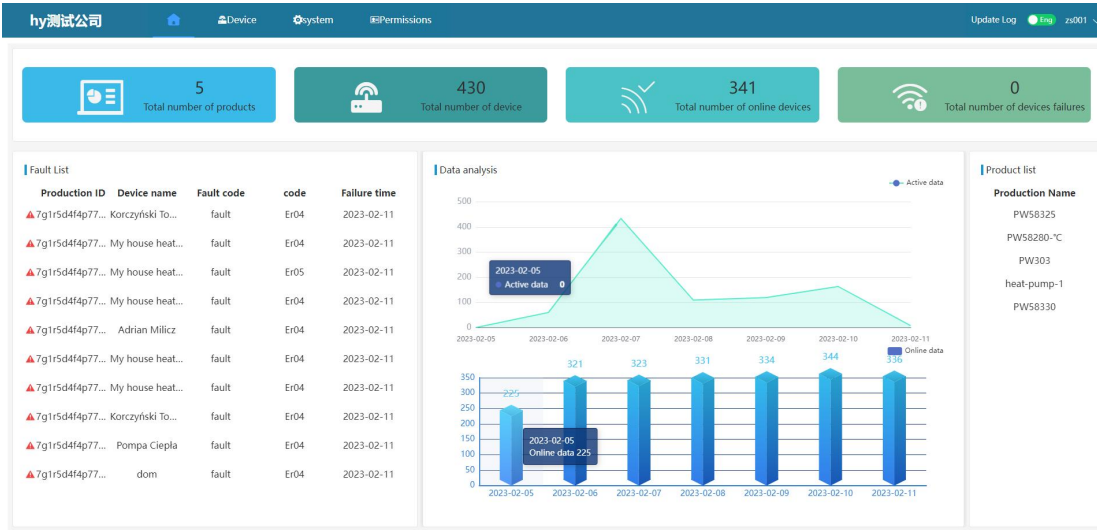
IOT Platform

Remember Password

English ▾

2 Big data Kanban

Display device activation, total number, and fault information.

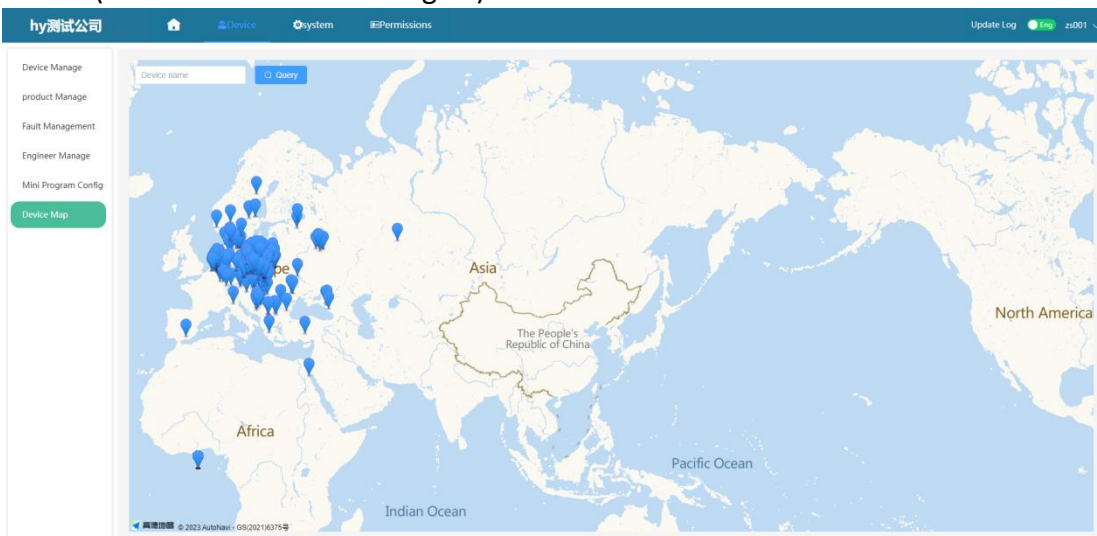


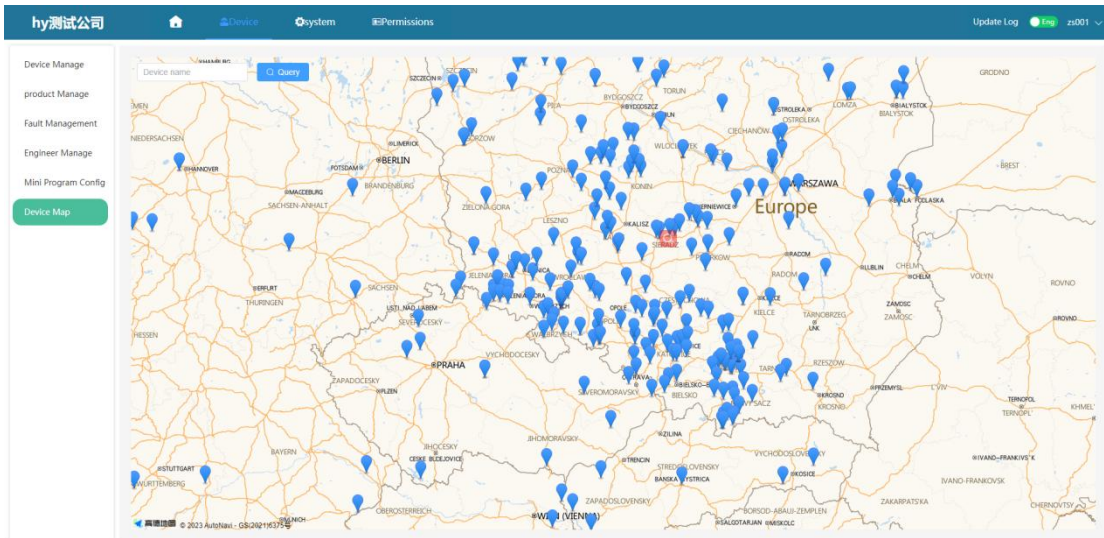
3 Device pages

3.1 Device map

- views the regional distribution of the device

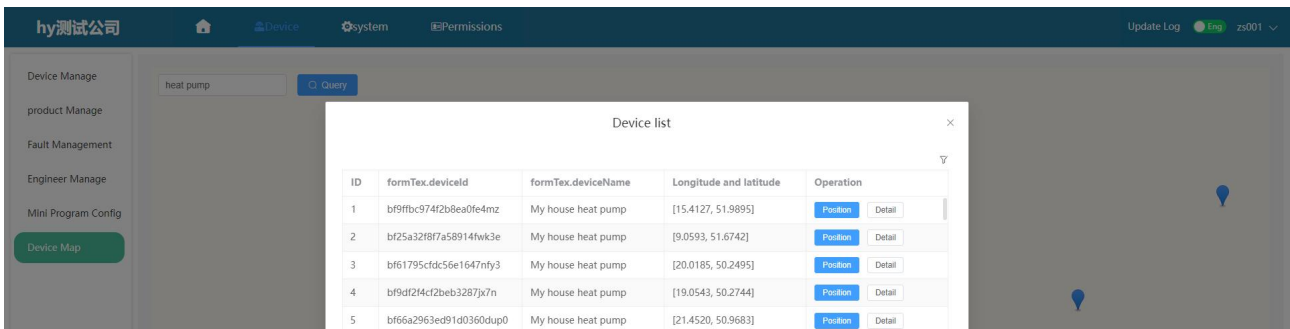
Displays the user's device on the map and views the regional distribution of the device. (Visible to account managers)





- **Search devices**

Enter device name or part of the device name in the upper-left search box to search for device location information, included Longitude, latitude, online time, etc.

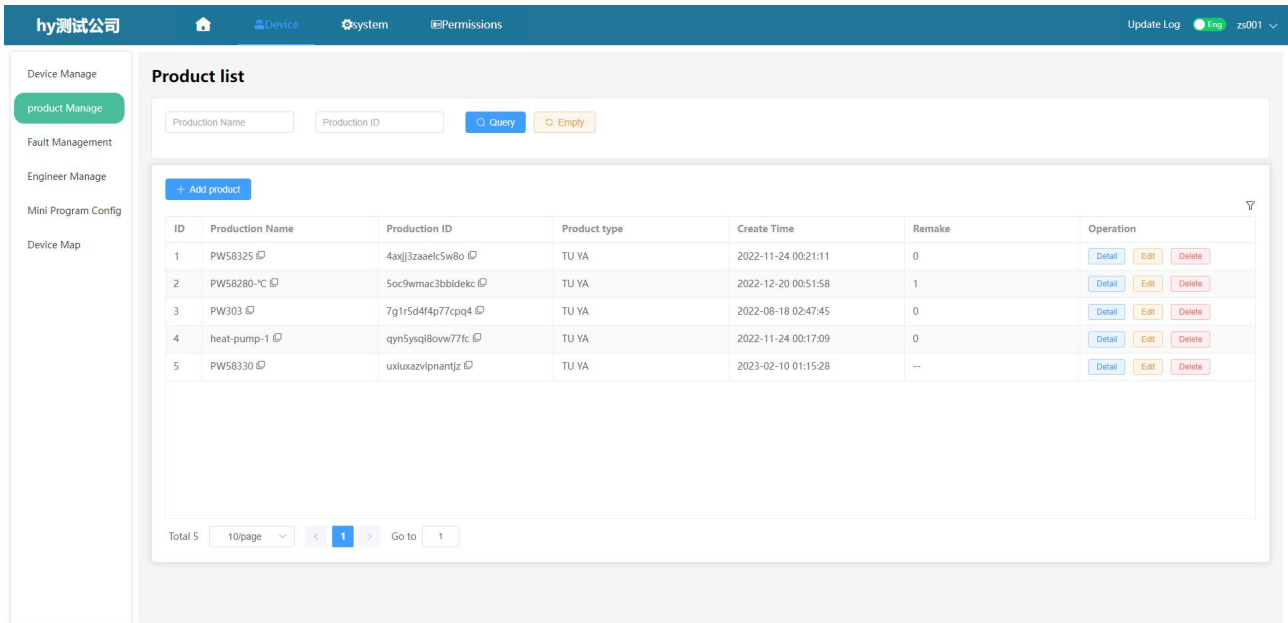


5 Device Management

5.1 Series Product Manage

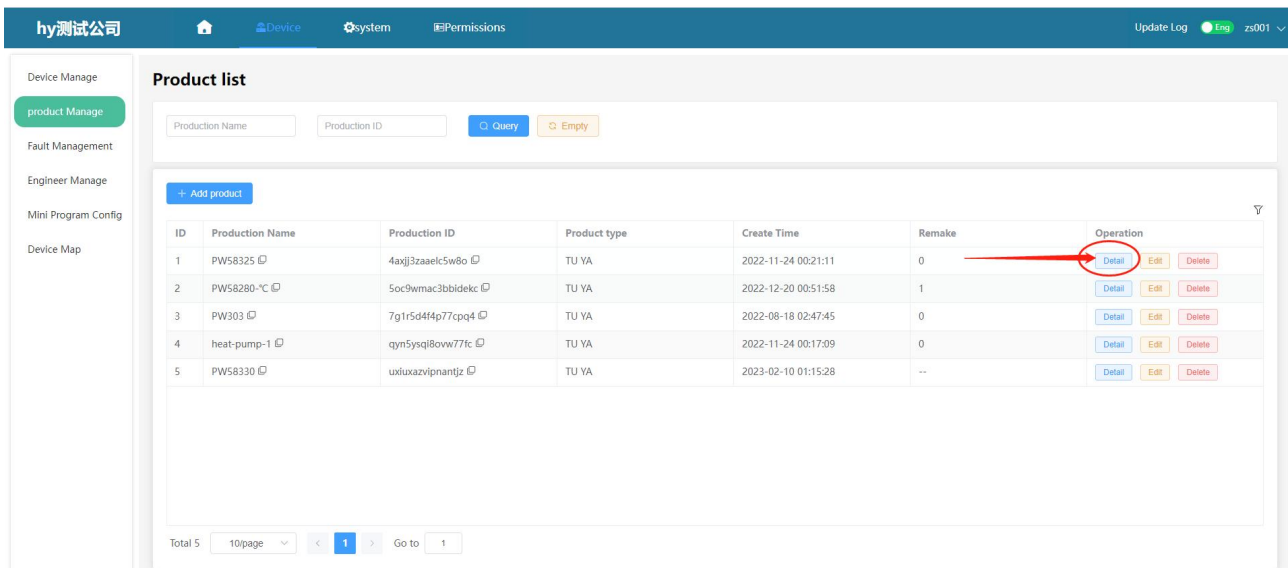
5.1.1 Product list

You can view the products you own



5.1.2 Product details

Click the Details button to enter Product details to view detailed product data.



5.1.3 User-defined fault data points

Click the fault data point in the details, and then click the Add Custom Fault data Point button. In the pop-up box, select the data point as the custom data point.

PW58325 [Edit](#) 4axjj3zaaelc5w8o ×

Owning project	TU YA	Remake	0 Edit
Create Time	2022-11-24 00:21:11	Update Time	2022-11-24 00:21:11

Data dictionary Failure data point Configure device list data points Parameter group configuration

+ User-defined fault data points

ID	Data point name	Identifier	Fault name	Fault value	Operation
No Data					

Added user-defined fault data points ×

Note: Click on the current row to select the data point! ⌵

Data point name	Identifier
Water outlet temp	outtemp
Wind speed of DC fan 2	dc_fan2_speed
Wind speed of DC fan 1	dc_fan_speed
Compressor actual frequency	cmp_act_frep
DC bus voltage value	dc_bus_voltage
Heat sink temp	sink_temp
Compressor current	cmp_cur
Opening of assistant EEV	stepb_run
Opening of main EEV	step_run
Water tank temp	wtemp

Total 21 10/page < 1 2 3 > Go to 1

Confirm
Cancel

5.1.4 Configure device list data points

Click the configuration data point to display it in the device list

hy测试公司 | Device | System | Permissions | Update Log | Eng | zs001

Device Manage

product Manage

Fault Management

Engineer Manage

Mini Program Config

Device Map

PW58325 Edit | 4axjj3zaaelc5w8o

Owning project: TU YA | Remake: 0 Edit

Create Time: 2022-11-24 00:21:11 | Update Time: 2022-11-24 00:21:11

Data dictionary | Failure data point | **Configure device list data points** | Parameter group configuration

+ Configure device list data points

ID	Identifier name	Identifier	Production ID	Remake	Operation

hy测试公司 | Device | System | Permissions | Update Log | Eng | zs001

Device Manage

product Manage

Fault Management

Engineer Manage

Mini Program Config

Device Map

PW58325 Edit | 4axjj3zaaelc5w8o

Owning project: TU YA | Remake: 0 Edit

Create Time: 2022-11-24 00:21:11 | Update Time: 2022-11-24 00:21:11

Data dictionary | Failure data point | **Configure device list data points** | Parameter group configuration

+ Configure device list data points

ID	Identifier name	Identifier	Production ID	Remake	Operation

Added user-defined fault data points

* Production ID

4axjj3zaaelc5w8o

* Identifier name

Identifier name

* Identifier

Identifier

* Remake

Parameter — Parameter description

+ Remake

Confirm Cancel

5.2 Single Device management

5.2.1 Device list

The list displays the user's devices.

The screenshot shows the 'Device list' interface. The search criteria are set to 'heat pump' in the 'Device name' field. The 'Total number of device' is 430. The table below lists the search results:

ID	Device Name/Remarks Name	Device ID	Production Name	Status	Last online time	Fault code	Remake	Operation
1	My house heat pump	bf0ee55a49bb17f462fqb	PW303	Device online	2023-02-11 14:58:22	--	--	Detail
2	WP 1782DA9	bfa17f8b2482a9bb18xrf	PW58280-°C	Device online	2023-02-11 14:58:07	--	--	Detail
3	My house heat pump	bf73bf6c81d6e4f245aaed	PW303	Device online	2023-02-11 14:57:45	--	E03已改	Detail
4	Korczyński Tomasz	00814030a4e57c9cdd03	PW303	Device online	2023-02-11 14:57:34	--	待观察	Detail
5	heat pumpJasłowa Doll na	bf0bc754a3842036f2c1m r	PW58280-°C	Device online	2023-02-11 14:57:06	--	--	Detail
6	My house heat pump	bf44b31aaef02a8c05n0i7	PW303	Device online	2023-02-11 14:56:44	--	待观察	Detail
7	Pompa ciepła na Rancz	bf8da073f45e1e4b8kfkq	PW58280-°C	Device online	2023-02-11 14:55:43	--	--	Detail

5.2.2 Search device

Select the search type in the figure and enter the search content to complete the device search.

This screenshot highlights the search filters in the 'Device list' page. The 'Device name' and 'Device ID' input fields, along with the 'Query' and 'Empty' buttons, are enclosed in a red box.

Can be used with status filtering.

This screenshot highlights the 'Status' filter in the 'Device list' page. The 'Status' dropdown menu is enclosed in a red box with a red arrow pointing to it. The 'Total number of device' is 159.

ID	Device Name/Remarks Name	Device ID	Production Name	Status	Last online time	Fault code	Remake	Operation
1	My house heat pump	bf36ef2f978bde97f0nruo	PW303	Device online	2023-02-11 15:24:50	--	E05已改	Detail
2	My house heat pump	00814030a4e57c9ceb5d	PW303	Device online	2023-02-11 15:24:44	--	待观察	Detail
3	My house heat pump	bf405532bdddbcb390jm a6	PW58280-°C	Device online	2023-02-11 15:24:19	--	--	Detail

5.2.3 Device details

Click the details button on the right side of the device list to enter device details.

The screenshot shows the 'Device list' interface. At the top, there's a navigation bar with 'hy测试公司', 'Device', 'System', and 'Permissions'. Below that, a sidebar on the left contains 'Device Manage', 'product Manage', 'Fault Management', 'Engineer Manage', 'Mini Program Config', and 'Device Map'. The main area has a 'Device list' header with a filter dropdown set to 'All' and a 'Total number of device' count of 159. Below the header is a search bar with 'heat pump' entered and 'Device ID' field. There are 'Query' and 'Empty' buttons. The table below has the following data:

ID	Device Name/Remarks Name	Device ID	Production Name	Status	Last online time	Fault code	Remake	Operation
1	My house heat pump	bf36ef2f978bde97f0nruo	PW303	Device online	2023-02-11 15:24:50	--	E05已改	Details
2	My house heat pump	00814030a4e57c9ceb5d	PW303	Device online	2023-02-11 15:24:44	--	待观察	Details

The screenshot shows the 'Device details' page for device ID 'bfad1fd9025439f9a04ejr'. The page is split into two main sections: a metadata table on the left and a 'Data point list' table on the right. The 'Data point list' table has the following data:

Serial number	Data point name	Identifier	Function point	Current state	Setting value	Function point attribute	Operation
1	ON/OFF	switch	BOOL	true	false <input checked="" type="checkbox"/> true	ture-true false-false	Send an order
2	Operating mode	mode	ENUM	smart	smart	smart-smart mute-mute strong-strong	Send an order
5	Work mode	work_mode	ENUM	with_heat	with_heat	with-with heat-heat cool-cool with-heat-with-heat with-cool-with-cool	Send an order
6	°C & °F switching	temp_unit_convert	ENUM	c	c	c<c f>f	Send an order

5.2.4 Running state

Click the Running state button to view the object model data points and real time values. You can also make changes to this device.

The screenshot shows the 'Running state' view for a device named 'My house heat pump' (ID: bf66a2963ed91d0360dup0). The interface is divided into three main sections:

- Left Panel:** A metadata table for the device.
- Center Panel:** A grid of data points with their current values and control options.
- Right Panel:** A 'Parameter set' view for the selected data point.

Property	Value
Owning product	PW303
Production ID	7g1r5d44p77cpq4
Remake name	Remake
Device status	5/6P
Fault number	0
Device online	0
Fault code	--
IP address	89.64.95.238
(lat, lon)	(50.9683, 21.4520)
Category	znrb
Platform type	TU YA
Internet of Things card number	--
Last online time	2023-02-11 17:09:26
Icon	

Data Point	Value	Control Options
ON/OFF	true	true-ture, false-false
Operating mode	strong	smart-smart, strong-strong, mute-mute
Work mode	wth_heat	wth-wth, heat-heat, cool-cool, wth_heat-wth
°C & °F switching	C	C-°C, F-F
Fault	0	
Water inlet temp.	37	Minimum value: -50, Maximum value: 220, Step size: 1
Water outlet temp.	43	Minimum value: -50, Maximum value: 220, Step size: 1
Ambient temp.	1	Minimum value: -50, Maximum value: 220, Step size: 1
Exhaust gas temp.	50	Minimum value: --, Maximum value: 400, Step size: 1
Return gas temp.	-6	
Evaporator coil temp.	-4	
Evaporator coil temp.	42	

The screenshot shows the 'Parameter set' view for a device named 'Marciniak Karszewo 16' (ID: 00814030a4e57c9cdada). The interface is divided into three main sections:

- Left Panel:** A metadata table for the device.
- Center Panel:** A table of data points with their current values and control options.
- Right Panel:** A 'Parameter set' view for the selected data point.

Property	Value
Owning product	PW303
Production ID	7g1r5d44p77cpq4
Remake name	Remake
Device status	5/6P
Fault number	0
Device online	0
Fault code	--
IP address	81.219.73.214
(lat, lon)	(--, --)
Category	znrb

ID	Data point	Value	Data point description	Setting value	Operation
1	Temp difference of return water and cooling target t emp	2	--	-- 2 +	Send an order
2	Temp difference of return water and hot water target t temp	5	--	-- 5 +	Send an order
3	Hot water setting temperature	46	--	-- 46 +	Send an order
4	Cooling setting temperature	30	--	-- 30 +	Send an order

5.2.5 Data list

Click the Data List button on a single object model on the running status table to view the chart and data of the changed data point.

hy测试公司 Update Log Eng zs001

Device Manage Device System Permissions

product Manage

Fault Management

Engineer Manage

Mini Program Config

Device Map

bf66a2963ed91d0360dup0
My house heat pump

Owning product	Production ID
PW303	7g1r5d44p77cpq4
Remake name	Remake
-- Edit	5/6P Edit
Device status	Fault number
Device online	0
Fault code	IP address
--	89.64.95.238
(lat, lon)	Category
(50.9683, 21.4520)	znrb
Platform type	Internet of Things card number
TU YA	-- Edit
Last online time	Icon
2023-02-11 17:13:29	
Multiple unit	
--	

Data point list Subaccount list Running state Data analysis Parameter set

Show identifier ID

<p>ON/OFF Data list</p> <p style="font-size: 1.2em; font-weight: bold;">true</p> <p style="font-size: 0.8em;">true-true false-false</p>	<p>Operating mode Data list</p> <p style="font-size: 1.2em; font-weight: bold;">strong</p> <p style="font-size: 0.8em;">smart-smart strong-strong mute-mute</p>	<p>Work mode Data list</p> <p style="font-size: 1.2em; font-weight: bold;">wth_heat</p> <p style="font-size: 0.8em;">wth-wth heat-heat cool-cool wth_heat-wth_</p>
<p>°C & °F switching Data list</p> <p style="font-size: 1.2em; font-weight: bold;">C</p> <p style="font-size: 0.8em;"><C >F</p>	<p>Fault Data list</p> <p style="font-size: 1.2em; font-weight: bold;">0</p>	<p>Water inlet temp. Data list</p> <p style="font-size: 1.2em; font-weight: bold;">34</p> <p style="font-size: 0.8em;">Minimum value: -50, Maximum value: 220, Step size:</p>
<p>Water outlet temp. Data list</p> <p style="font-size: 1.2em; font-weight: bold;">40</p> <p style="font-size: 0.8em;">Minimum value: -50, Maximum value: 220, Step size:</p>	<p>Ambient temp. Data list</p> <p style="font-size: 1.2em; font-weight: bold;">1</p> <p style="font-size: 0.8em;">Minimum value: -50, Maximum value: 220, Step size:</p>	<p>Exhaust gas temp. Data list</p> <p style="font-size: 1.2em; font-weight: bold;">44</p> <p style="font-size: 0.8em;">Minimum value: --, Maximum value: 400, Step size: 1</p>
<p>Return gas temp. Data list</p> <p style="font-size: 1.2em; font-weight: bold;">-7</p>	<p>Evaporator coil temp. Data list</p> <p style="font-size: 1.2em; font-weight: bold;">-4</p>	<p>Evaporator coil temp. Data list</p> <p style="font-size: 1.2em; font-weight: bold;">37</p>

Water outlet temp. ✕

7 days v
Export data

ID	Value	Time
1	46	2023-02-11 17:17:26
2	41	2023-02-11 17:14:10
3	40	2023-02-11 17:13:46
4	39	2023-02-11 17:13:30
5	38	2023-02-11 17:13:07
6	37	2023-02-11 17:12:52
7	36	2023-02-11 17:12:34
8	35	2023-02-11 17:12:20
9	42	2023-02-11 17:10:07
10	43	2023-02-11 17:09:26

Total 3827
10/page v

<
1
2
3
4
5
6
...
383
>
Go to 1

5.2.6 Data export

Click the Batch Export data button to export the excel file

Water outlet temp. ×

7 days Export data

ID	Value	Time
1	46	2023-02-11 17:17:26
2	41	2023-02-11 17:14:10
3	40	2023-02-11 17:13:46
4	39	2023-02-11 17:13:30
5	38	2023-02-11 17:13:07
6	37	2023-02-11 17:12:52
7	36	2023-02-11 17:12:34
8	35	2023-02-11 17:12:20
9	42	2023-02-11 17:10:07
10	43	2023-02-11 17:09:26

Total 3827 10/page < 1 2 3 4 5 6 ... 383 > Go to 1

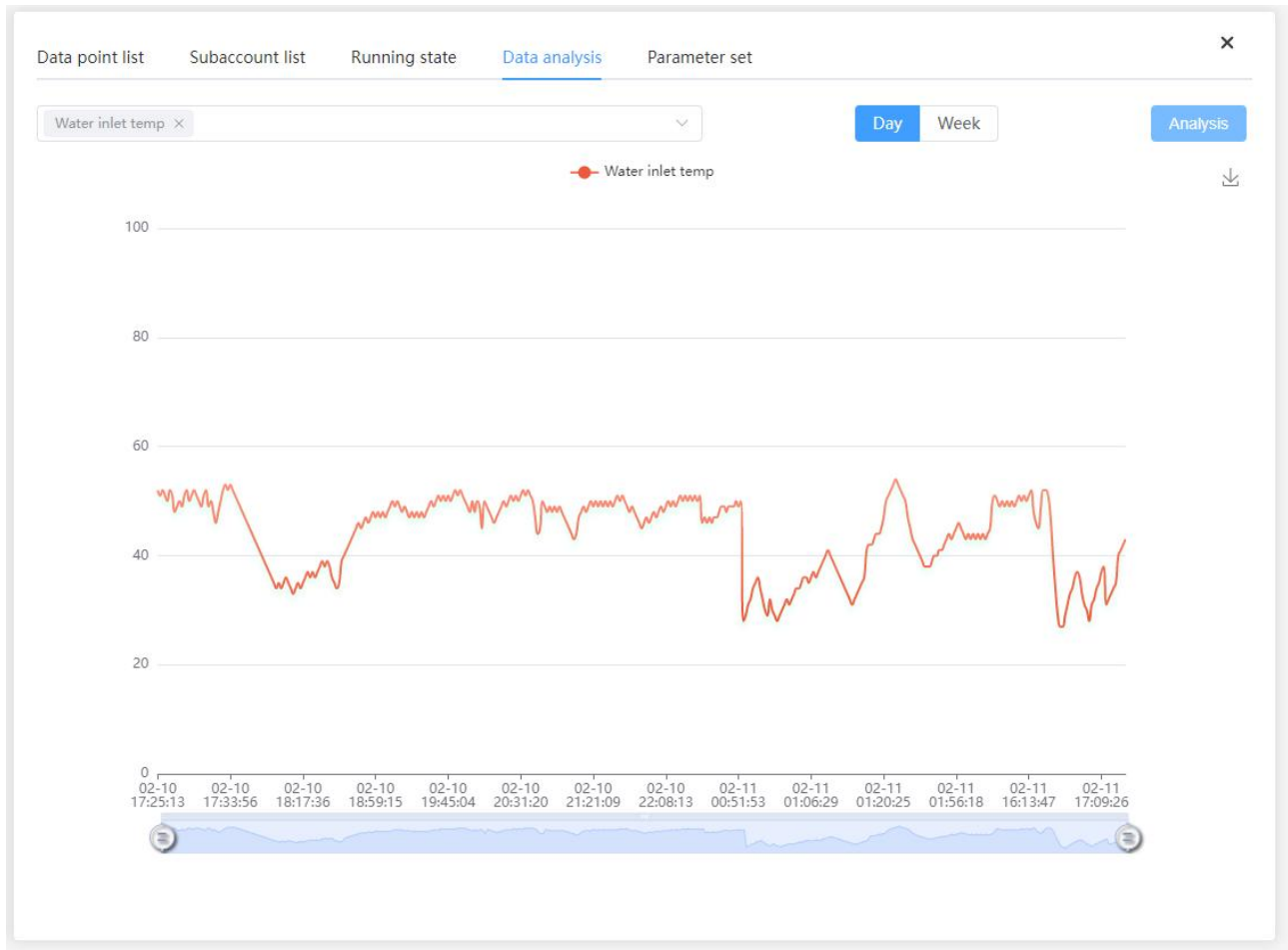
5.2.7 Data analysis

Click the data analysis button in the function page to enter the data analysis page and select data points and days to view charts and data tables.

Data point list Subaccount list Running state **Data analysis** Parameter set ×

Select data points for analysis Day Week Analysis

1 2 3 4



5.3 Heat pump control

Click the "Parameter set" button to enter the page. After selecting the command/setting value, click the send command button to control the corresponding data point of the heat pump equipment.

Data point list Subaccount list Running state Data analysis **Parameter set** ×

parameter_group_1 Data analysis

ID	Data point	Value	Data point description	Setting value	Operation
1	Temp difference of return water and cooling target temp	2	--	— 2 +	Send an order
2	Temp difference of return water and hot water target temp	5	--	— 5 +	Send an order
3	Hot water setting temperature	46	--	— 46 +	Send an order
4	Cooling setting temperature	30	--	— 30 +	Send an order

6 Device Group

6.1 Adding a device group

Click the "Add Device Group" button in the upper left corner and enter the information to add device

group

+ 添加设备组

ID 设备组编码

共 0 条 10 条/页

添加设备组

* 设备组编码

设备组编码

* 设备组名称

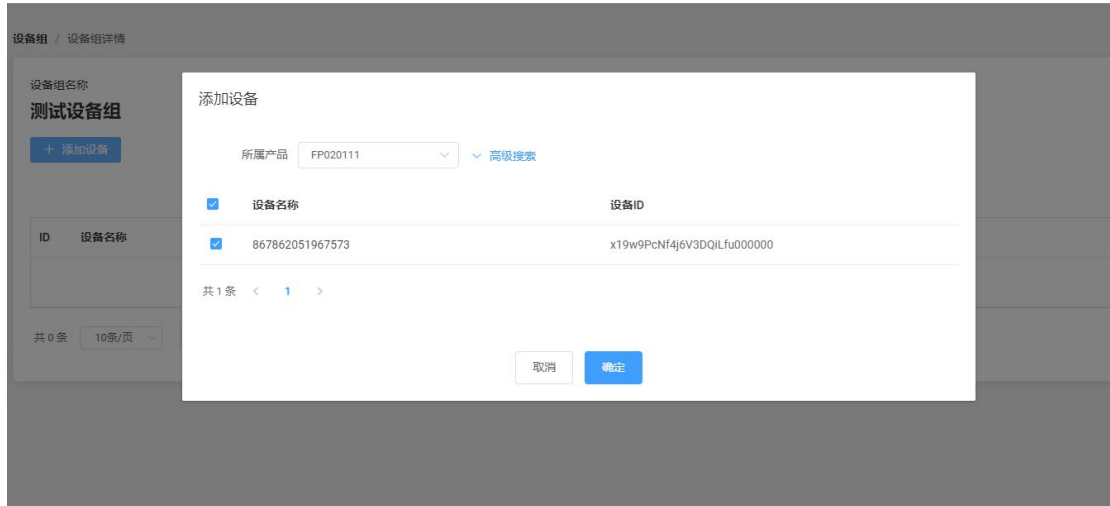
设备组名称

备注

请填写备注

6.2 Device group Adds a device

Click the Device Details button to enter the device details interface. Click the Add Device button in the upper left corner to add the device to the device group.



6 Fault Management

6.1 Fault List

The fault report value is displayed in the list.

hy测试公司

Device system Permissions Update Log Eng zs001

Device Manage product Manage **Fault Management** Engineer Manage Mini Program Config Device Map

Fault management

Fault List

Product ID/ data point name 7g1r5d4f4p77cpq4 / fault

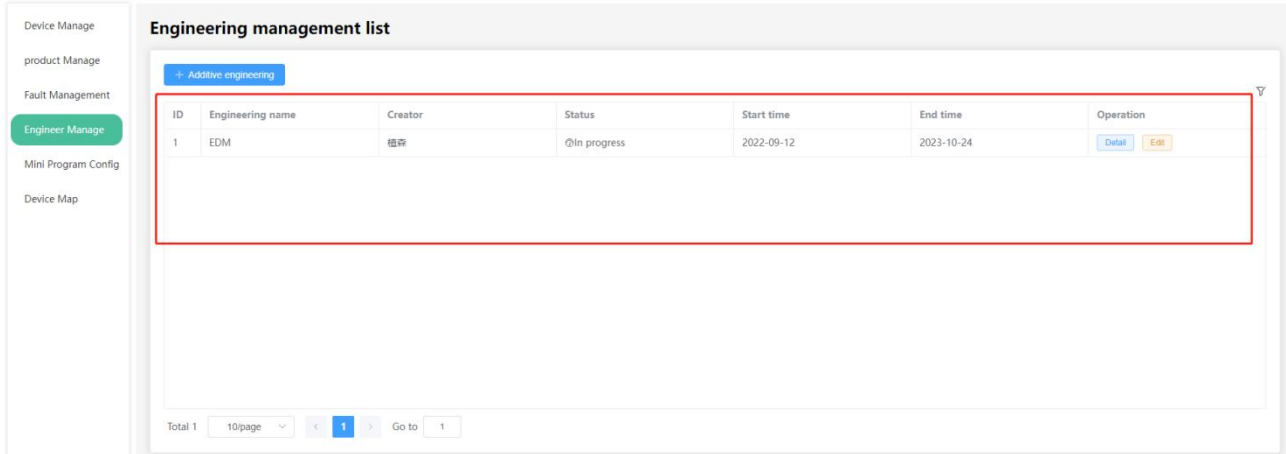
ID	Production ID	Device ID	Device name	Failure data point	Fault code	Failure time
1	7g1r5d4f4p77cpq4	bffc65cb9aa46f5593niuz	My house heat pump	fault	Er04	2023-02-11 17:46:36
2	7g1r5d4f4p77cpq4	00814030a4e57c9ccd03	Korczyński Tomasz	fault	Er04	2023-02-11 17:45:47

7 Project Management

Classify the devices into a project for convenient classification and sorting.

7.1 Project List

The list shows the projects created.



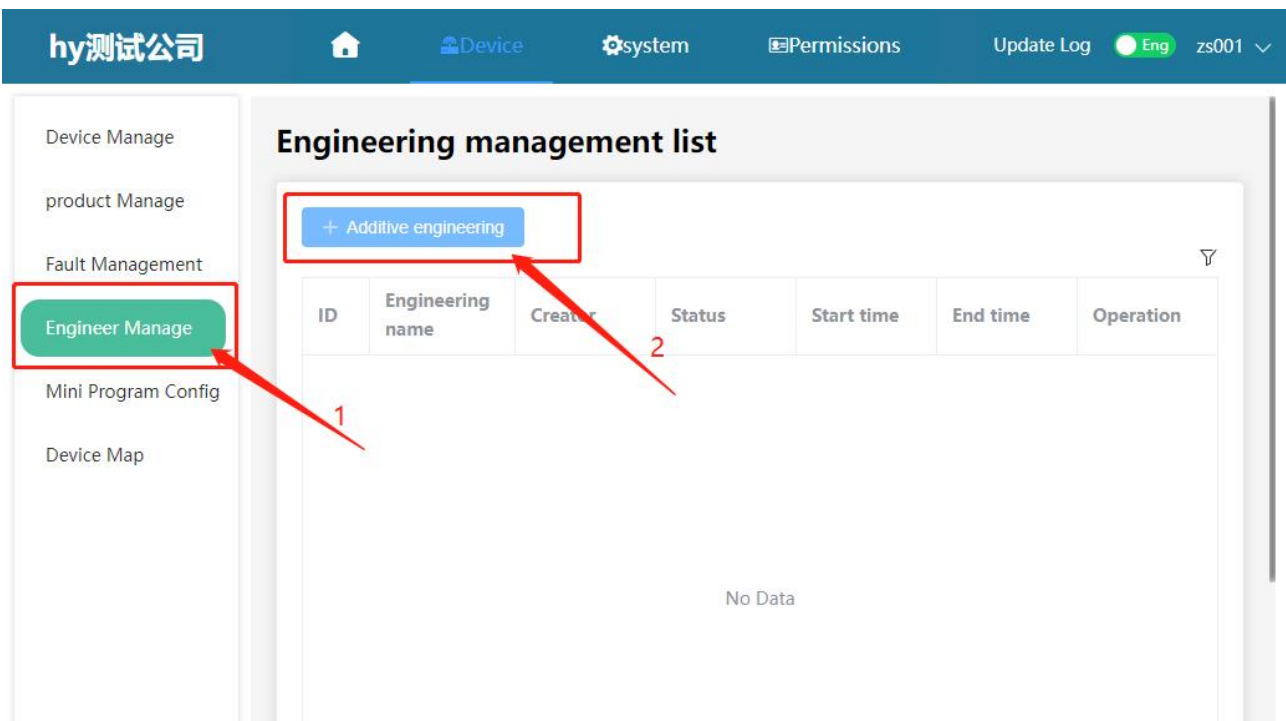
The screenshot shows the 'Engineering management list' interface. On the left is a sidebar with navigation options: Device Manage, product Manage, Fault Management, Engineer Manage (highlighted in green), Mini Program Config, and Device Map. The main content area has a title 'Engineering management list' and a '+ Additive engineering' button. Below is a table with the following data:

ID	Engineering name	Creator	Status	Start time	End time	Operation
1	EDM	植森	0In progress	2022-09-12	2023-10-24	Detail Edit

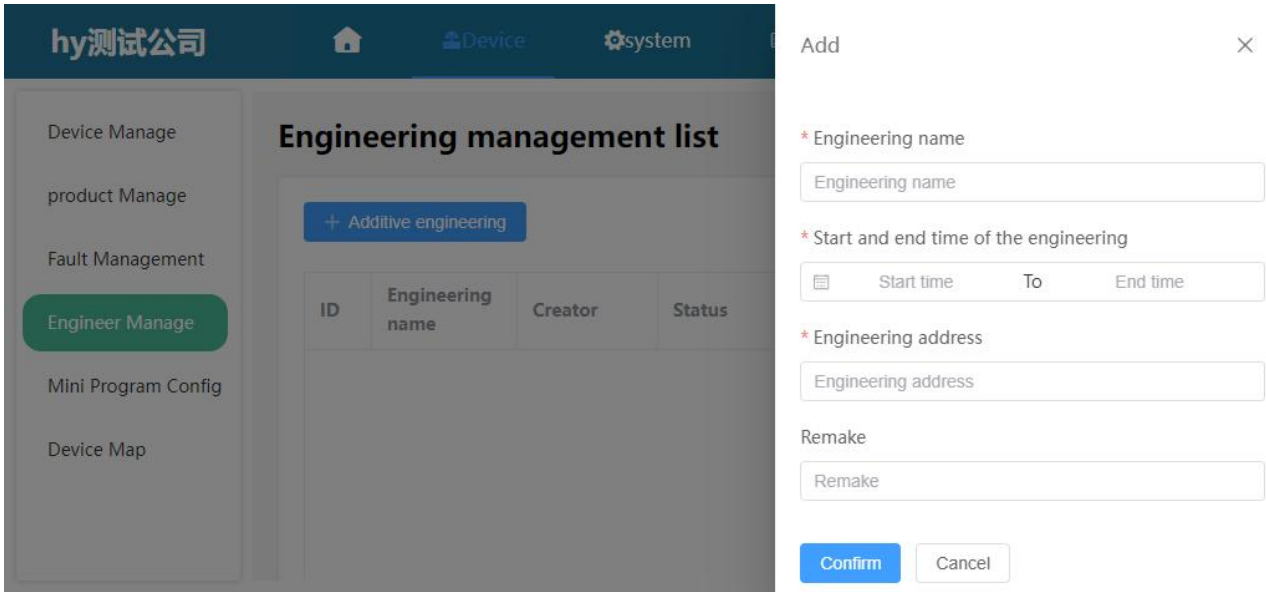
At the bottom of the table, there is a pagination control showing 'Total 1', '10/page', and 'Go to 1'.

7.2 New Project

Click the "Add Project" button and enter the corresponding information to complete the addition of the project.

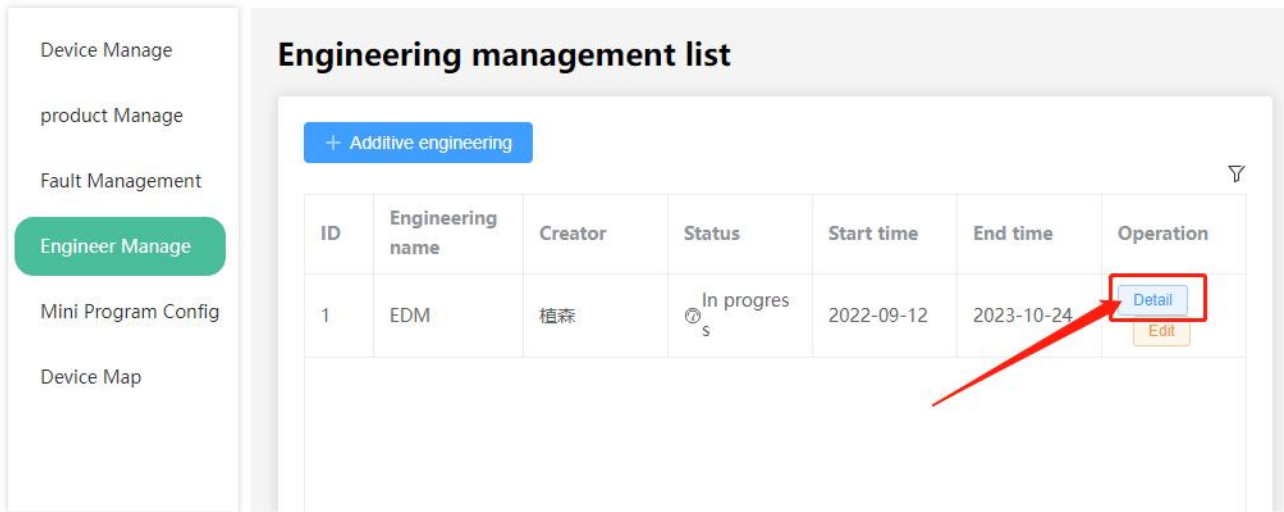


The screenshot shows the 'Engineering management list' interface with annotations. The top navigation bar includes the company logo 'hy测试公司', a home icon, and links for Device, system, Permissions, Update Log, Eng (status), and zs001. The sidebar on the left has 'Engineer Manage' highlighted in green and circled with a red box and arrow labeled '1'. The main content area has a '+ Additive engineering' button circled with a red box and arrow labeled '2'. The table below is empty and contains the text 'No Data'.



7.3 Project Details

Click the Details button on the right side of the project list to enter the project details.



7.4 Device Operations

7.4.1 Device List

View the heat pump devices categorized into this project.

ID	设备名称/备注名称	设备ID	产品名称	产品ID	状态	最后上线时间	操作
1	867862051967573	x19w9PcNf4j6V3DQILfu000000	FP020111	a18w6hgLis7	●设备离线	2022-06-22 15:24:42	详情 删除

7.4.2 Adding a Device

Click the Add Device button on the right side of the device list, select the corresponding device in the pop-up box, and add it to the device list.

设备名称	设备ID
867862051967573	x19w9PcNf4j6V3DQILfu000000

7.4.3 Deleting a Device

Click the Delete button to delete the device

← 返回 / 项目详情

项目名称
test

基本信息 设备操作

设备 添加设备

设备ID	设备名称	产品ID	状态	操作	
1	smtb664Nul2BcMTAUkml000000	866327042733030	a1Ynasc7kjK	●在线	删除

共 1 条 10条/页 < 1 > 前往 1 页

8 Company/organization

8.1 Company/Portfolio Details

See company/organization details.

Corporation List

+ Add Corporation

ID	Corporation	Client Name	Address	Remake	Create Time	Operation
1	佛山市佰特智富物联科技有限公司	佰特IoT平台	佛山市天安数码城9期A座1604	2021-03-15 10:41:15	伯特	Detail Edit Delete
2	高而美	高而美商用物联平台	未知	2021-03-17 09:28:44	高而美	Detail Edit Delete
3	2021-03-29 09:31:41	...	Detail Edit Delete
4	2021-03-31 09:28:52	unl...	Detail Edit Delete
5	2021-04-07 10:14:18	...	Detail Edit Delete
6	2021-04-19 10:10:08	...	Detail Edit Delete
7	2021-05-21 15:33:24	...	Detail Edit Delete
8	2021-06-03 14:10:29	...	Detail Edit Delete
9	2021-07-13 09:23:55	...	Detail Edit Delete
10	2021-09-01 16:30:11	...	Detail Edit Delete

Total 16 10/page < 1 2 > Go to 1

8.2 Edit company/organization Details

Click the Edit button to edit the company/organization details.

hy测试公司 Home Device System **Permissions** Update Log Eng zs001

Menu List
Role Access Control
Corporation List
Corporation Manager
User Management
Sub-account Manage

Corporation List

+ Add Corporation

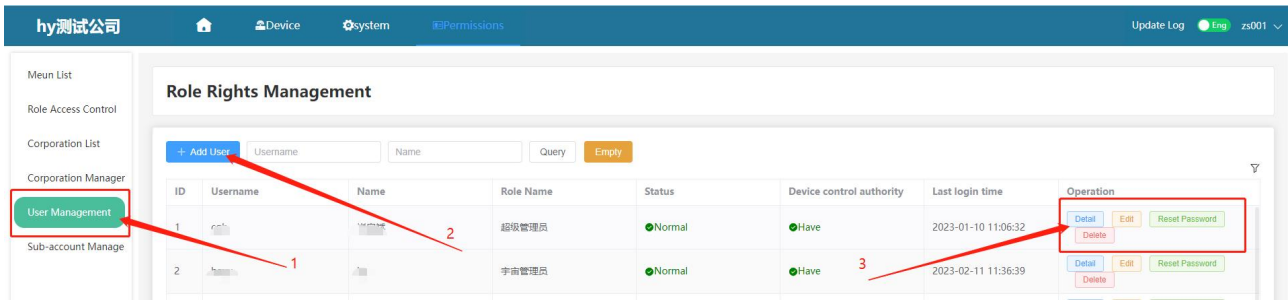
ID	Corporation	Client Name	Address	Remake	Create Time	Operation
1	佛山市佰特智富物联科技有限公司	佰特IoT平台	佛山市天安数码城9期A座1604	2021-03-15 10:41:15	伯特	Detail Edit Delete
2	高而美	高而美商用物联平台	未知	2021-03-17 09:28:44	高而美	Detail Edit Delete

1 (points to Permissions menu)
2 (points to Corporation List menu)
3 (points to Edit button in row 2)

10 Account Management

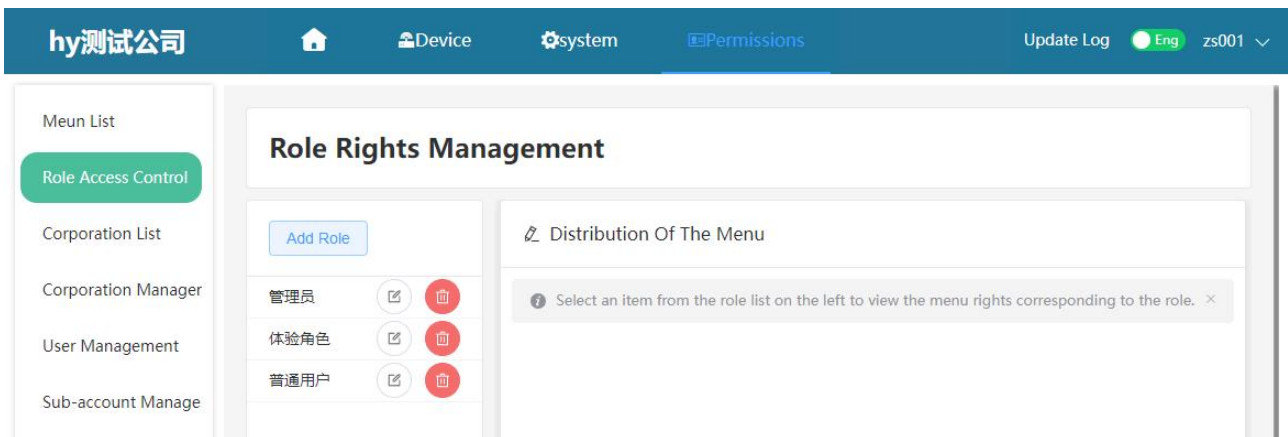
10.1 Setting Administrators

Click User Management and select Edit button to set the administrator role.



10.2 Setting Role Rights

Click Role Control to set roles and permissions.



10.3 Setting a Subaccount

You can assign devices to subaccounts directly or by device group.

