国尚信科技
Gsino Science & Technology

RS2171
Wireless real-time temperature recorder

User manual

Product specifications are subject to updates without prior notice. Please read this manual before operating
Read this manual before operation

catalogue

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matters needing attention

- Do not disassemble or modify this product without authorization.
- Please only use the power adapter that comes with this product.
- Do not use this product in flammable or explosive environments.
- Do not use corrosive chemicals, solvents, or cleaning agents to clean this product.
- If the equipment is not used for a long time, please store it in a cool place and do not place it in a high temperature or humid environment.
- Please do not subject this product to strong impact or vibration to avoid permanent damage to internal circuits and mechanical devices.
- Please keep the user manual safe.
- Guoshangxin adheres to the policy of sustainable development.
- Guoshangxin reserves the right to make improvements and improvements to any product described in this document without prior notice. Therefore, the technical specifications listed in this manual may change without prior notice to the user.

1. Safety information

In any case, the use and storage of this product should follow the temperature specified in this manual. Before use, please carefully read the user manual of this product to ensure proper and safe use.

- Warning signs indicate conditions and measures that may cause harm to users
- The "Caution" label may damage the conditions and operations of the equipment being used

1.1 Warning

Disclaimer: Guoshangxin produces equipment for temperature and humidity recording, verification, monitoring, and stability research. The equipment used for applications other than these studies is at the customer's discretion and full responsibility. Except for temperature and humidity recording, monitoring, and stability research, Guoshangxin assumes no responsibility for the use of the equipment in any application. Before putting the equipment into use, customers need to verify the temperature range of the equipment used.

1.2 General

- Except for temperature and humidity recording, monitoring, and stability research, the equipment shall not be used for any other application, as any other use of the equipment may pose unknown hazards to the user.
- Do not use the device in environments other than those listed in this product manual, and follow all safety guidelines. Only trained personnel are allowed to use this equipment, and the equipment should be checked for damage before each use. If the device is damaged or running abnormally, please do not use it.
- Before initial use, after transportation, or after storage in a humid or semi humid environment, the equipment needs to be dried for at least 2 hours before it can be considered to meet all safety requirements of IEC1010-1. If the equipment is damp or already in a damp environment, necessary measures should be taken to remove moisture before power is applied. This device is for indoor use only.

1.3 Electrical hazards

These guidelines must be followed to ensure that the safety mechanisms in the equipment can function properly. If applicable, the device must be plugged into a 115VAC (± 10%) or 230 VAC (± 10%) 50/60 Hz power outlet as indicated on the label. The power supply of the instrument is powered by a lithium battery and equipped with a wireless USB charger, which can prevent the risk of electric shock. The installation of the charger socket must comply with local standards and regulations, and extension cords should not be used. Consult a qualified electrician. Before use, be sure to check whether the insulation layer of the power cord is damaged due to contact with high-temperature surfaces, cuts, or wear. Please make sure to replace the power cord with an approved one of the correct rating and type. If you have any questions, please contact Guoshangxin authorized service.

1.4 Instructions

1.4.1 EMC

The equipment has been tested and complies with the European Electromagnetic Compatibility Directive (EMC Directive, 2014/30/EU). The compliance statement of your instrument lists the specific standards for testing the device.

1.4.2 Low voltage (safety)

In order to comply with the European Low Voltage Directive (LVD) 2014/35/EU, the design of the equipment complies with the EN61010-1 standard.

1.4.3 Abandoned electrical and electronic equipment

All products supplied after February 1, 2003 comply with the requirements of Directive 2012/19/EU on Electrical and Electronic Equipment Waste (WEEE).

This means that all Guoshangxin products that must be recycled or treated separately are labeled as W/EEE in accordance with the provisions of Directive 2012/19/EU on Electrical and Electronic Equipment Waste. In addition, Guoshangxin accepts scrapped equipment from customers and classifies it for waste disposal. According to this directive, old equipment returned to Guoshangxin for repair can also be scrapped. Guoshangxin has an obligation to register waste in accordance with national legislation, which may also require us to accept end-users' scrapped equipment and dispose of it in accordance with national laws. According to ISO/EC17050, this declaration of conformity is the sole responsibility of the manufacturer and does not affect the supplier's warranty obligations.

As part of our product development plan, we reserve the right to exceed the standards.

1.4.4 ARIB

The equipment has been tested and meets the requirements of the Japanese standard ARIBSTD-T66 (Low Power Data Communication System/Wireless Local Area Network System).

1.5 After sales service

You can contact your sales representative and add after-sales personnel on WeChat for one-on-one after-sales guidance. When contacting Guoshangxin for support, please provide the following information: device SN code (silver label content on the device side), and a complete description of the issue.

2. Technical parameters

2.1 Product Introduction

Wireless real-time temperature recorder: designed specifically for industries such as medicine, medical sterilization, food industry, and environmental monitoring, it has been widely used in steam sterilization cabinets, dry heat sterilization, online sterilization, water bath sterilization cabinets, sterilization pots, incubators, stability testing boxes, refrigerators, freeze-drying machines, and various tank containers for verification.

The equipment adopts high-precision temperature sensors and high-temperature resistant components, which can operate stably in an environment of -60 ℃ to 150 ℃. A gateway can support up to 20 recorders simultaneously uploading temperature measurement data to the Valsys Pro high-temperature sterilization verification system for data analysis, monitoring the entire sterilization process, and digitizing the sterilization effect.

2.2 Product technical parameters

Product specifications	
Model	RS2171
Measuring range	-60-150 ℃
resolving power	0.01 ℃
Temperature measurement accuracy	(-60~150 ℃) ± 0.1 ℃
work environment	-60-150 ℃
Protection level	IP68
Number of channels	Single channel
Power supply method	battery
Battery and battery life	3.6V high-temperature resistant battery (@ 5 second upload interval) for 6 months
communication mode	wireless
Record interval	1 second to 10 hours
Sending interval	Same as record interval
Communication distance	100 meters
Internal storage	65000 pieces
Firmware update	OTA upgrade
Equipment size	subject Φ 30mm x 71.8mm probe Φ 3mm x 40mm
Shell material	Pick, 316L stainless steel

3. Appearance and product structure

3.1 Packaging List

① **RS2171 Wireless Real time Temperature Recorder**

② **M5 gateway**

③ **M5 gateway charger**

④ **Tool pliers**

⑤ **USB data cable**

⑥ **Backup battery (high-temperature resistant battery, if you want to purchase later, please contact Guoshangxin after-sales service)**

⑦ **silicone oil**

⑧ **Sealing ring**

3.2 Product Description

3.2.1 RS2171 wireless real-time temperature recorder

The main components of the RS2171 wireless real-time temperature recorder are a temperature probe above and a host battery body below

Temperature probe

host battery body

Tip: Battery replacement operation for the host battery body. First, use tool pliers to loosen the cap, then use tool pliers to clamp the probe and pull it out. After pulling it out, completely loosen the cap and pour out the black cylindrical part inside the host battery body. The lower part is the battery. Remove the battery and replace it. After replacement, reassemble the recorder. Use tool pliers to tighten it during assembly.

3.2.2 Gateway

The M5 gateway product has strong scalability, can connect to hundreds of sensors for data transmission, supports millions of data storage, is not afraid of information redundancy, high-definition display of various monitoring data, and is easy to operate and master.

3.2.2.1 Technical parameters of M5 gateway products

M5 Gateway Product Specifications	
Model	M5
work environment	-20 ℃~60 ℃
Working humidity	0-90% RH, no condensation
Carrying quantity	200 sensors
Screen display	3.5-inch color touch screen
Power supply method	5V/2A, powered by lithium batteries
Battery capacity	4000MAH
Battery life	15 hours
communication mode	4G/WIFI
Sending interval	Default 1 minute (adjustable)
data storage	8 million pieces
Firmware update	OTA remote upgrade

Alarm method	acousto-optic
Shell material	PC/ABS
Host size	151 * 111 * 27mm

3.2.2.2 M5 Gateway Device Structure and Key Description

Equipment structure
① Signal light: Flashing light indicates communication with the probe
② HOME key: Unlock screen
③ Left button: Volume decrease, unlock screen
④ Right click: Volume up, unlock screen
⑤ Power button: Long press to turn on/off
⑥ Wired socket: USB cable interface for gateway wired connection
⑦ Antenna port: Access gain antenna
⑧ Charging port: Use the matching 5V-2A power adapter for charging

3.2.3.3 How to connect M5 gateway to WIFI

This product supports both 4G and WIFI networks. When the device is enabled with the priority WIFI network option, WIFI will be used first by default. If the device is disconnected, 4G network will be automatically enabled. The following are the steps to connect to the WIFI network:

- ❖ When the device is unlocked, click on the menu bar in the upper left corner of the homepage and select Settings.
- ❖ Scroll down to the network settings bar, turn on the WIFI switch, click the [Modify Network] button, select the WIFI you want to connect to, enter the password, and then click connect.
- ❖ If the connection is successful, it will automatically redirect back to the APP settings page. If the password is incorrect, long press the WIFI name to modify the network/cancel saving the network, and enter the correct password.

3.2.3.4 M5 gateway operation

Step 1: Click on the three white lines in the upper left corner find the settings, and enter;

Step 2: Click on the communication protocol column to select wired or wireless protocols.

（a）Choose wired protocol:

Connect the USB interface on the left side of the M5 gateway with a data cable, and connect the other end to the computer host used by the Valsys Pro platform;

(b) Select wireless protocol:

- ✧ The gateway will jump out of the server address, here you need to fill in the computer IP address used by the Valsys Pro platform

- ✧ It needs to be connected to a local area network along with the PC. If connected to WIFI, turn on the WIFI switch, find the corresponding WiFi account in the WiFi connection status column, and enter the password to connect.

4. Platform User Manual

4.1 Preparation work

- This device needs to be paired with a gateway and PC for use;
- Use your Valsys Pro account to log in to the verification software in order to add new devices;
- There will be software packages, keys, and user manuals inside the USB drive. Prepare the USB drive.

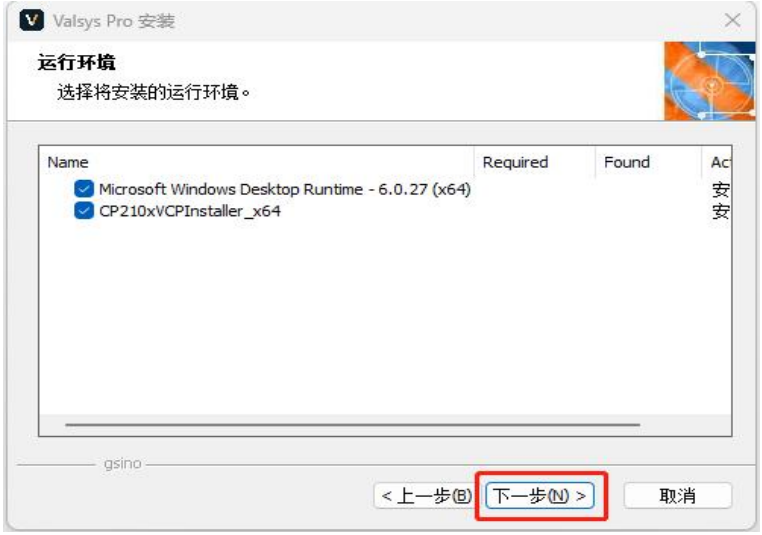
4.2 Platform Operation Guide

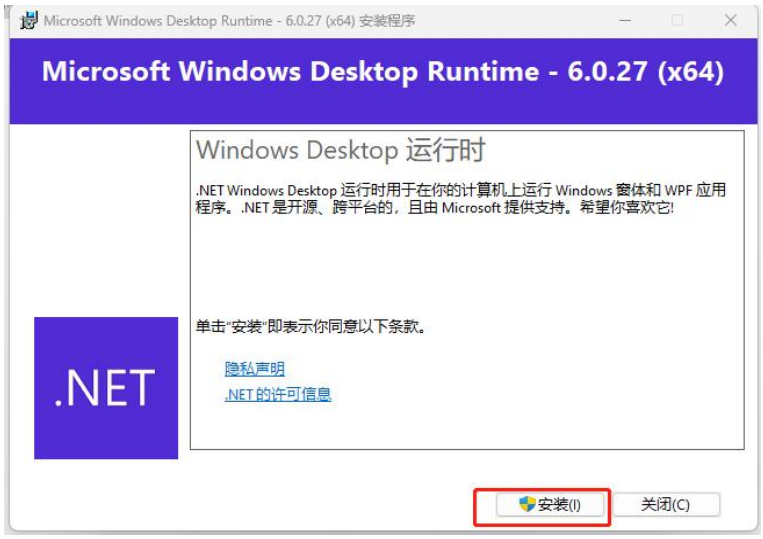
4.2.1 Installing software packages

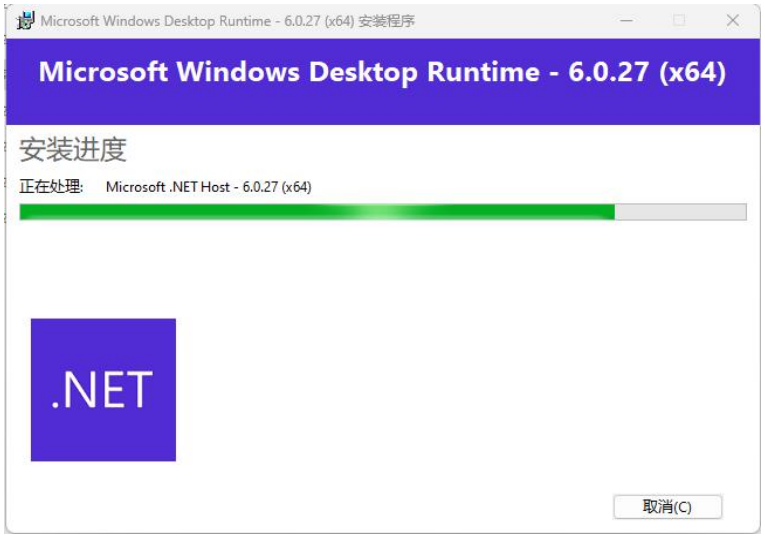
Firstly, insert the USB drive into the system, open it, and download the software package Valsys Pro, as shown in Figure 12-1

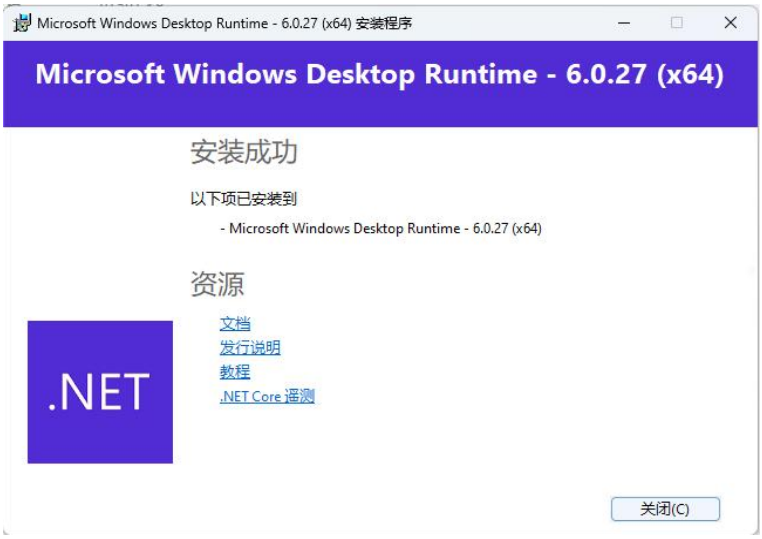
Figure 12-1

Secondly, open for installation, as shown in the prompt below:


Valsys Pro 安装
运行环境
选择将安装的运行环境。
Name
Required
Found
Microsoft Windows Desktop Runtime - 6.0.27 (x64)
CP210xVCPInstaller_x64
gsino
< 上一步(B)
下一步(N) >
取消


Microsoft Windows Desktop Runtime - 6.0.27 (x64) 安装程序
Microsoft Windows Desktop Runtime - 6.0.27 (x64)
Windows Desktop 运行时
.NET Windows Desktop 运行时用于在你的计算机上运行 Windows 窗体和 WPF 应用程序。.NET 是开源、跨平台的，且由 Microsoft 提供支持。希望你喜欢它!
单击"安装"即表示你同意以下条款。
隐私声明
.NET 的许可信息
.NET
安装(I)
关闭(C)


Microsoft Windows Desktop Runtime - 6.0.27 (x64) 安装程序
Microsoft Windows Desktop Runtime - 6.0.27 (x64)
安装进度
正在处理: Microsoft .NET Host - 6.0.27 (x64)
.NET
取消(C)


Microsoft Windows Desktop Runtime - 6.0.27 (x64) 安装程序
Microsoft Windows Desktop Runtime - 6.0.27 (x64)
安装成功
以下项已安装到
- Microsoft Windows Desktop Runtime - 6.0.27 (x64)
资源
文档
发行说明
教程
.NET Core 遥测
.NET
关闭(C)

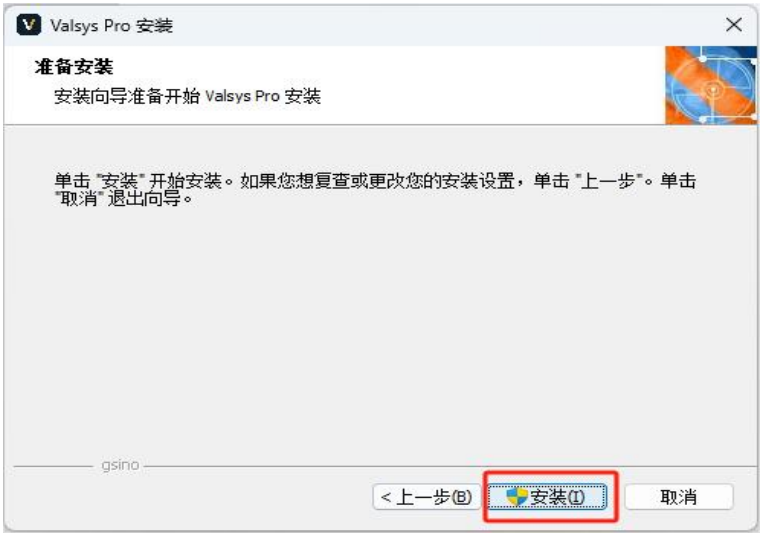
Valsys Pro 安装
正在安装 prerequisites for Valsys Pro
CP210x USB to UART Bridge Driver Installer
Welcome to the CP210x USB to UART Bridge Driver Installer
This wizard will help you install the drivers for your CP210x USB to UART Bridge device.
要继续，请单击“下一步”。
< 上一步(B)
下一页(N) >
取消

Valsys Pro 安装
正在安装 prerequisites for Valsys Pro
CP210x USB to UART Bridge Driver Installer
许可协议
要继续，请接受以下许可协议。 要阅读全部协议，请使用滚动条或按 Page Down 键。
LICENSE AGREEMENT
SILICON LABS VCP DRIVER
IMPORTANT: READ CAREFULLY BEFORE AGREEING TO TERMS
THIS PRODUCT CONTAINS THE SILICON LABS VCP DRIVER AND INSTALLER PROGRAMS AND OTHER THIRD PARTY SOFTWARE. TOGETHER THESE PRODUCTS ARE REFERRED TO AS THE "LICENSED SOFTWARE". USE OF THE LICENSED SOFTWARE IS SUBJECT TO THE TERMS OF THIS LICENSE AGREEMENT.
我接受这个协议(A)
我不接受这个协议(D)
另存为(S)
打印(P)
< 上一步(B)
下一页(N) >
取消

CP210x USB to UART Bridge Driver Installer
Completing the Installation of the CP210x USB to UART Bridge Driver
此计算机上成功地安装了此驱动程序。
现在您可以将设备连接到此计算机。如果此设备附有说明，请先阅读。
驱动程序名
状态
Silicon Laboratori...
可以使用了
< 上一步(B)
完成
取消

Valsys Pro 安装
欢迎使用 Valsys Pro 安装向导
安装向导将在您的计算机上安装 Valsys Pro。单击 "下一步(N)" 继续，或单击 "取消" 退出安装向导。
< 上一步(B)
下一步(N) >
取消

Valsys Pro 安装
选择安装文件夹
这是将被安装 Valsys Pro 的文件夹。
要安装到此文件夹，请单击 "下一步(N)"，要安装到不同文件夹，请在下面输入或单击 "浏览" 按钮。
文件夹(F):
C:\Program Files (x86)\Gsino\Valsys Pro\
浏览(O)...
gsino
< 上一步(B)
下一步(N) >
取消


Valsys Pro 安装
准备安装
安装向导准备开始 Valsys Pro 安装
单击 "安装" 开始安装。如果您想复查或更改您的安装设置，单击 "上一步"。单击 "取消" 退出向导。
gsino
< 上一步(B)
安装(I)
取消

Valsys Pro 安装
正在完成 Valsys Pro 安装向导
单击 "完成" 按钮退出安装向导。
启动 Valsys Pro
< 上一步(B)
完成(F)
取消

Valsys Pro

4.2.2 Login Platform

Firstly, after the installation of the PC software Valsys Pro is completed, enter the key as shown in Figure 17-1. After entering the login page, enter the corresponding account and password as shown in Figure 17-2

Figure 17-1

Figure 17-2

4.2.2.1 System Settings

After entering the system, click on [System Settings] as shown in Figure 17-3

Figure 17-3

1) Gateway and IP configuration

Step 1, enter [Other Settings] as shown in Figure 18-1

Figure 18-1

Step 2, after entering, perform the Gateway Connection Configuration, which can be configured in two ways:

a. Wired protocol settings:

Select [wired] on the PC end, as shown in Figure 18-2;

Select【 Wired Protocol 】for the communication protocol of M5 gateway, as shown in Figure 19-1,; At the same time, one end of the USB data cable is plugged into the gateway USB interface, and the other end is connected to the PC computer.

Figure 18-2

Figure 19-1

b. Wireless protocol settings:

Select [Wireless] on the PC end, as shown in Figure 19-2;

Select "Wireless Protocol" for M5 gateway communication protocol, and the server address needs to be filled in with the PC IP address, as shown in Figure 19-3; Connect to WIFI, turn on the WIFI switch, find the corresponding WiFi account in the WiFi connection status column, enter the password to connect, as shown in Figure 20-1. Note: The gateway needs to be connected to a local area network along with the PC end computer.

Figure 19-2

Figure 19-3

Figure 20-1

If the gateway and IP end are successfully connected, you can return to the bottom right corner of the homepage to view the SN code of the connected gateway, as shown in Figure 20-2

Figure 20-2

2) Password configuration

Firstly, click on password configuration to enter, as shown in Figure20-3

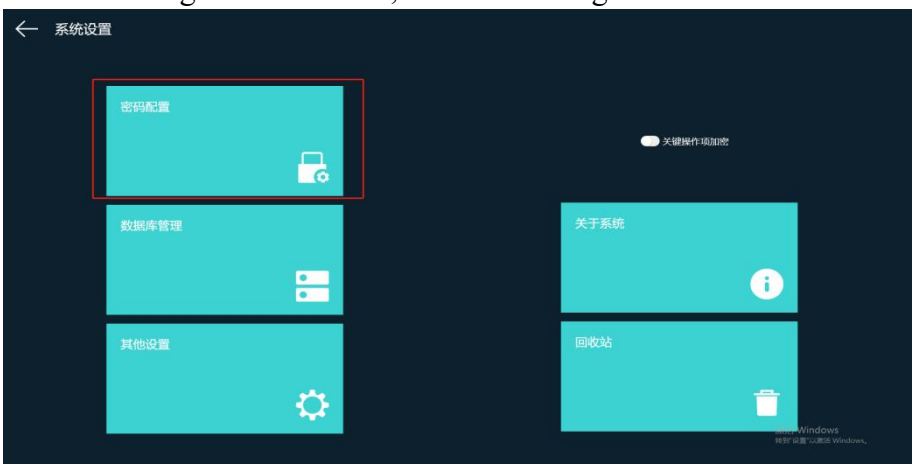


Figure 20-3

Secondly, after entering, basic password settings can be made, as shown in Figure 21-1

a. "Password length": The length of password characters can be set, and after setting, turn on the right switch;

b. "Password expiration": The password validity period and expiration reminder before password expiration can be set. After setting, turn on the right switch;

c. "Password lock": You can set how long the password will be locked after N incorrect inputs, and turn on the right switch after the setting is completed;

d. "Timed out login": You can set how long it takes to log out without any action. After setting, turn on the right switch;

e. Finally, click the OK button and the setup is successful.

Figure 21-1

3) Database management

a. Back up data, click on the "Backup Database" button in the upper right corner, as shown in Figure 21-2

Figure 21-2

b. To recover data, click on the [Restore Database] button in the upper right corner, select the data that needs to be recovered, click OK, and a pop-up message will appear indicating successful database recovery. Please restart the program and click OK, as shown in Figure 22-1

Figure 22-1

4) About the system

Firstly, click on "About the System" as shown in Figure 22-2

Figure 22-2

Secondly, after opening, you can view the version information on the PC side, as shown in Figure 22-3

Figure 22-3

5）**recycle bin**

第一，Open the recycle bin, as shown in Figure 23-1

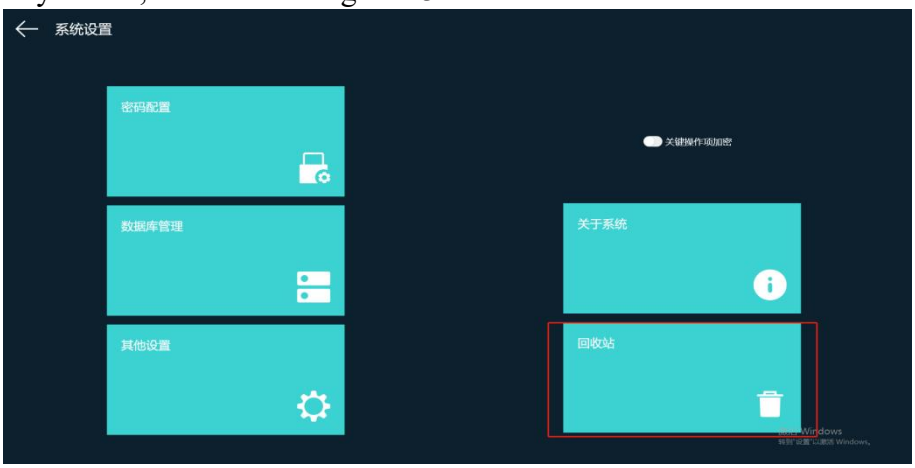


Figure 23-1

Secondly, after entering, you will see projects that have been deleted in the [Verification Project], which can be restored or further deleted, as shown in Figure 23-2

Figure 23-2

4.2.2.2 Basic Information

Click on the homepage 【 Basic Information 】 to enter, as shown in Figure 23-3

Figure 23-3

1）**Role management**

第一，Click on [New Role], as shown in Figure 24-1

a. "Role name": can be named independently;

b. "Role level": The smaller the number, the higher the permission. Choose the corresponding level for the named role;

c. "Character Description": Describe the named character.

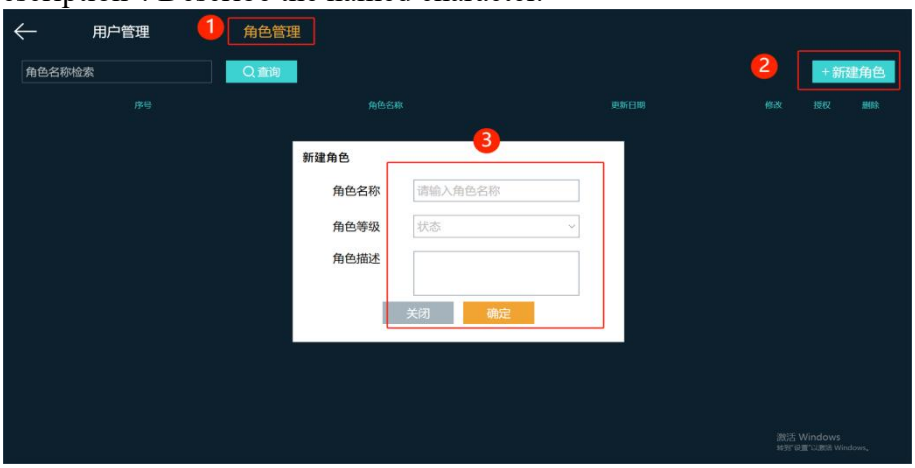


Figure 24-1

Secondly, after the role is displayed, you can perform 【 modify 】, 【 authorize 】, and 【 delete 】 operations on the role, as shown in Figure 24-2

Figure 24-2

2）**user management**

第一，Click on User Management, as shown in Figure 25-1

a. Click on "Add Department" to fill in the information and name "Department Name" and "Department Number" by yourself. And select its superior department information.

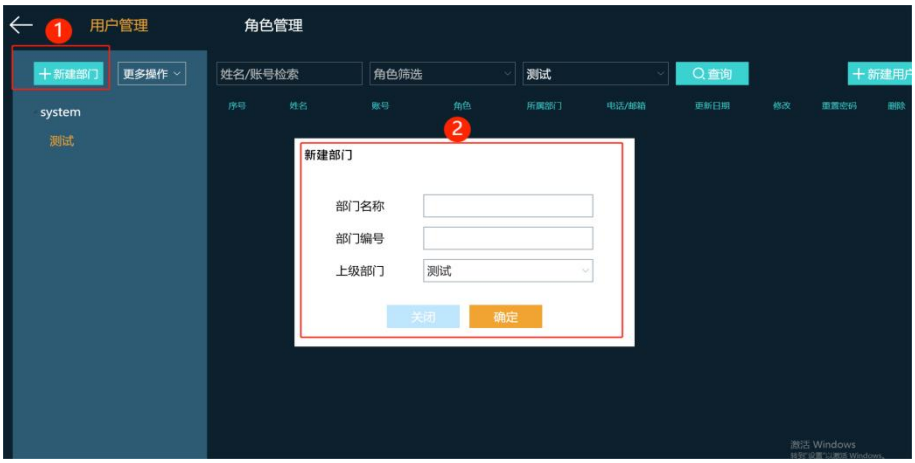


Figure 25-1

b. After the department is added, users can be added under the corresponding department by filling in the following information in sequence: "Account", "Password", "Name", "Role", "Phone/Email", "Confirm Password", "Gender", "Department", Note: The red dots are mandatory, as shown in Figure 25-2

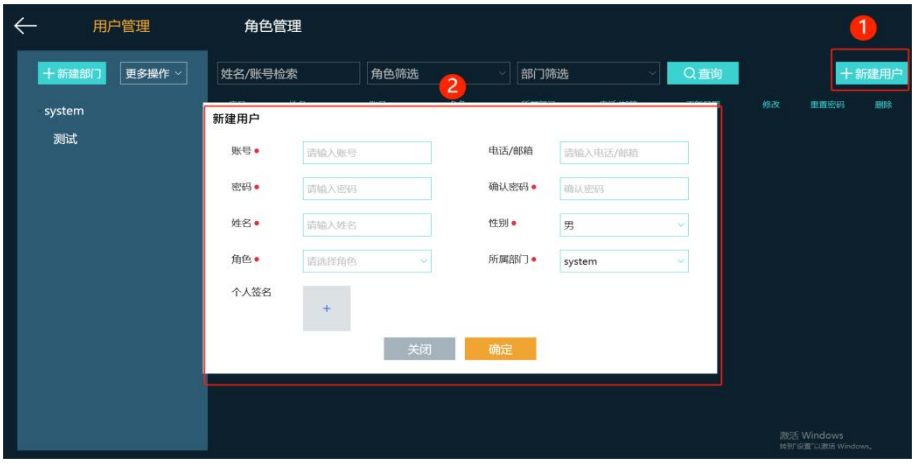


Figure 25-2

c. Click on the "More Operations" button in the upper right corner to modify department information again and delete departments, as shown in Figure 25-3

Figure 25-3

d. After the user is successfully created, they can be modified, reset, or deleted, as shown in Figure 26-1

Figure 26-1

4.2.2.3 Engineering Information

1) Create Project

There are two ways to enter the first step of creating a project:

The first option is to click on the first icon [Create Project], as shown in Figure 26-2

Figure 26-2

The second option is to click on "Verify Project" to enter, as shown in Figure 27-1; After entering, click the "Create" button in the upper right corner, as shown in Figure 27-2

Figure 27-1

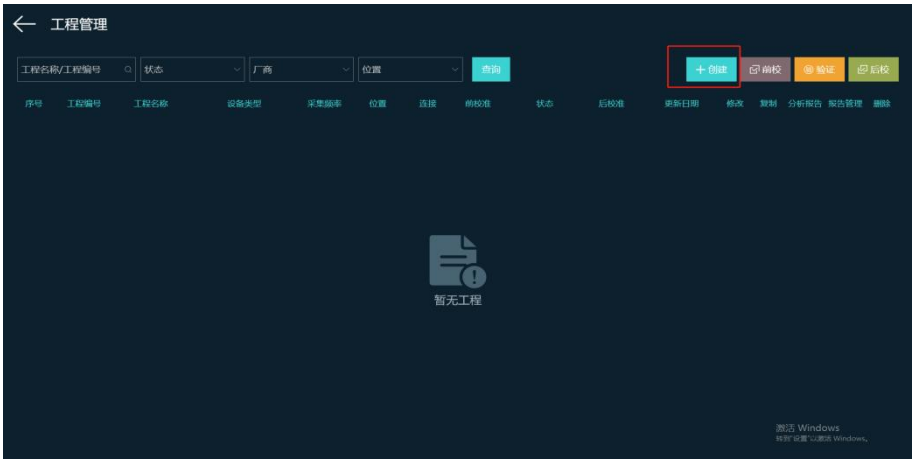


Figure 27-2

Step 2: Enter engineering information and follow the prompts to enter the corresponding information. After completing the input, click "Next" in the bottom right corner to enter the process of adding sensors, as shown in Figure 28-1

a. [Project Name]: Can be named independently;

b. **[**Dry Heat/Wet Heat**]**: Select the sensor environment and select from the dropdown menu: Dry Heat/Wet Heat/Freeze Drying; After selection, click the blue "Parameter Settings" button on the right to change the "Reference Temperature", "Minimum Effective Sterilization Temperature", and "Z Value" data

c. [Equipment Manufacturer]: You can click the "+" button on the right to add a new manufacturer. After adding, you can make a dropdown selection;

d. 【 Temperature Range 】: The upper and lower temperature ranges can be set by oneself;

e. [Department]: You can select the previously created department information;

f. [Project Number]: By default, the first six digits of the number are the year, month, and day information, and the last three digits are the project quantity number created on the current day;

g. [Device Type]: Click the blue "Select" button on the right side of the corresponding box to select the device type

h. [Equipment Model]: Can be self coded;

i. 【 Belonging Building 】: You can click the "+" button on the right to add a new manufacturer. After adding, you can make a dropdown selection.

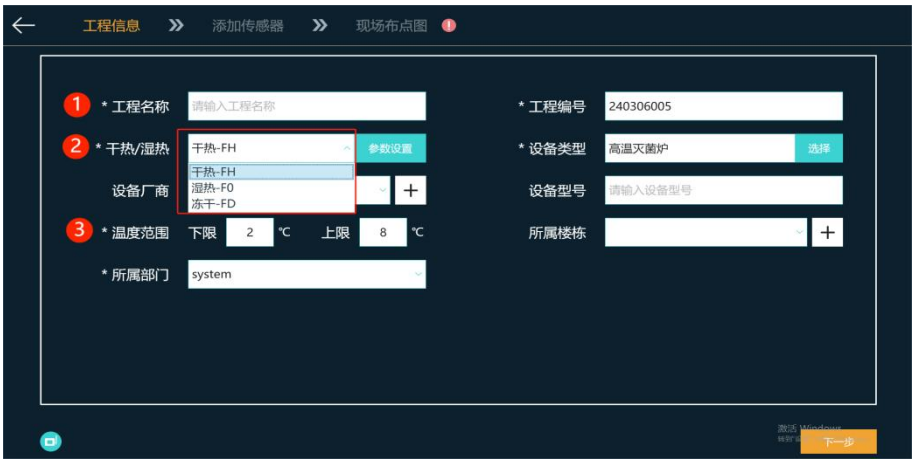


Figure 28-1

2) Add sensors

The first step is to click on the top right corner [Add Sensor], and the page will display "10s Sensor Search in Progress", as shown in Figure 28-2;

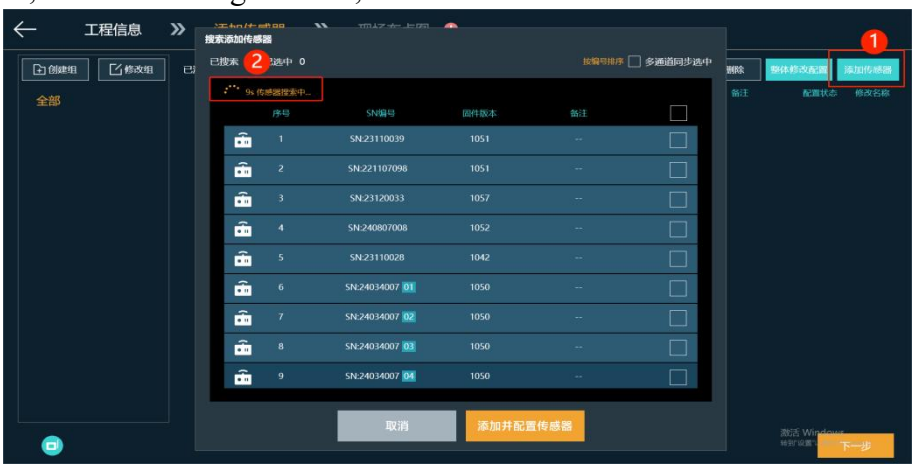


Figure 28-2

The second step is to wait until the countdown ends and display "Search stopped". Check the sensor number corresponding to the SN number on the host and click "Add and configure sensor" as shown in Figure 28-3. If it is not found the first time, you can click "Search Stop, Search Again" and refresh.

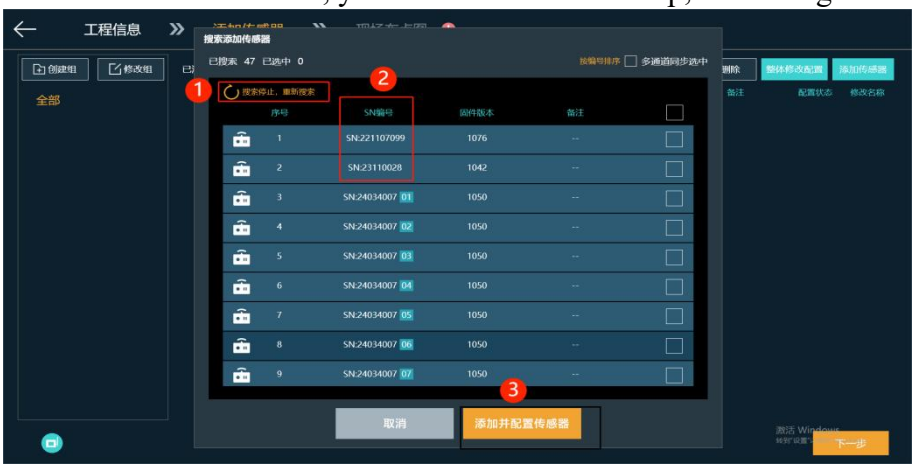


Figure 28-3

Step 3: After clicking, a pop-up window will pop up saying "Please confirm the task configuration first". Click "OK" as shown in Figure 29-1

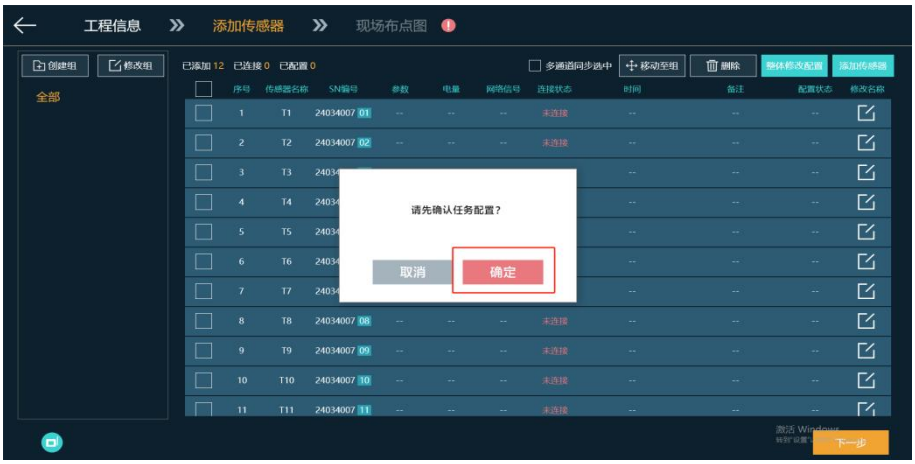


Figure 29-1

Step 4, after clicking OK, a pop-up window will pop up again, requiring you to select "Start Stop Method" (choose one from three),

a. 【 Start Now 】: Start collecting data immediately and set the collection frequency synchronously (default collection frequency is 5S), as shown in Figure 29-2;

Figure 29-2

b. 【 High and low temperature values 】: Verification only starts when the temperature reaches the set command temperature range. The collection frequency can be synchronously set (default collection frequency is 5S), as shown in Figure 30-1;

Figure 30-1

c. [Time cycle]: Verification only starts after the set time point, and the collection frequency can be synchronously set, as shown in Figure 30-2;

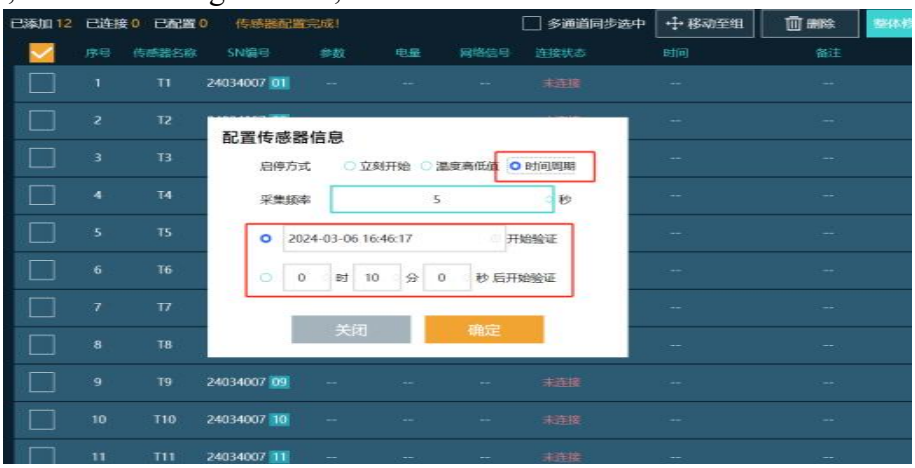


Figure 30-2

Step 5, after determining the start stop mode, you can choose to group the sensors. ① Select the sensor code that needs to be grouped, ② select Create Group in the upper right corner, ③ fill in the group name and add a description, as shown in Figure 30-3

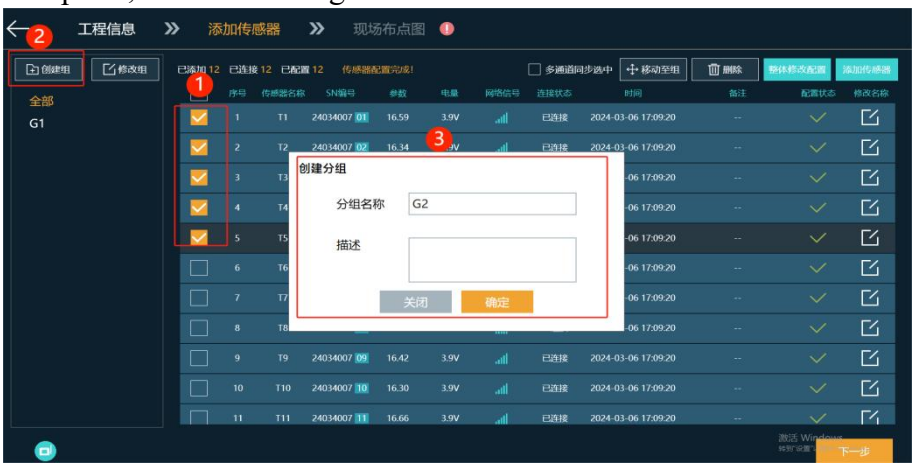


Figure 30-3

Step 6, when the sensor configuration status is displayed as "√", select "Next" in the bottom right corner to enter the on-site layout diagram, as shown in Figure 31-1

Figure 31-1

3) On site layout map (non mandatory)

Click on the top left corner marker to drag onto the graphic to indicate the location information; Click on "Upload Site Map" in the upper right corner, and after uploading, click on the "Verify" button in the lower right corner, as shown in Figure 31-2

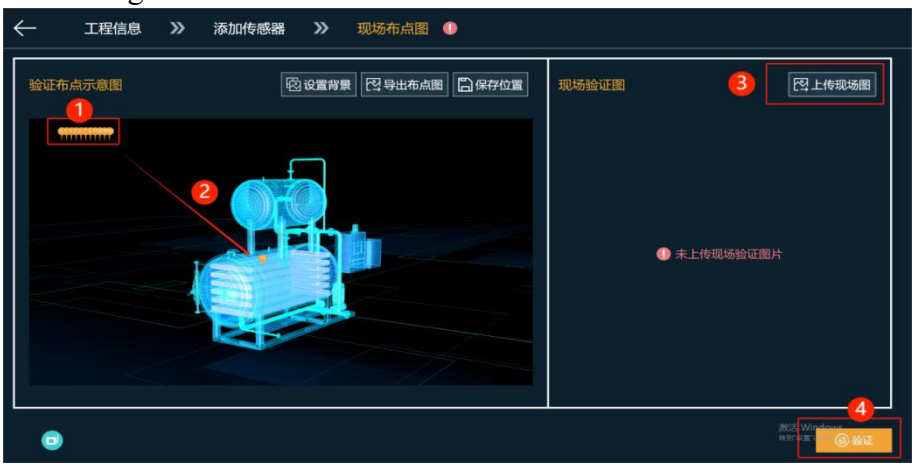


Figure 31-2

4.2.2.4 Enter Verification

1) Verification interface

a. If the "start stop method" selected earlier is "start immediately", real-time data will be displayed on the left. At this time, click "start verification" in the upper right corner, and then click "confirm", as shown in Figure 32-1;

Figure 32-1

b. If the "start stop method" selected earlier is "temperature high/low value" or "time period", the verification will only start after setting certain conditions. The real-time data on the left will show "ready". At this time, click "start verification" in the upper right corner, and then click "OK", as shown in Figure 32-2. **Note: Under these two start stop modes, the probe data system in the task generated after clicking on start verification can only be recorded.**

Figure 32-2

2) High and low line settings

After entering the verification, high and low lines can be set, and corresponding colors will be marked in the figure, as shown in Figure 32-3;

Figure 32-3

3) Stage markers

Stage markers can also be set, as shown in Figure 33-1

Figure 33-1

4) End validation

When the verification time is up, click on the top right corner to end the verification, confirm, as shown in Figure 33-2

Figure 33-2

After clicking OK, the upper right corner displays "Data Continuation in Progress" as shown in Figure 33-3

Figure 33-3

To be displayed [Analysis and Verification] indicates that the data has been processed, as shown in Figure 34-1

Figure 34-1

5) Data analysis: After the validation report is generated, data analysis can be performed

① 【 Special Value Selection 】, select the corresponding special value, and the corresponding color can be displayed in the report, as shown in Figure 34-2

Figure 34-2

② [High and low line settings]. Previously, the high and low lines were set in the verification interface to display the highest/lowest lines in the report; You can also reset the high and low line values here, as shown in Figure 34-3

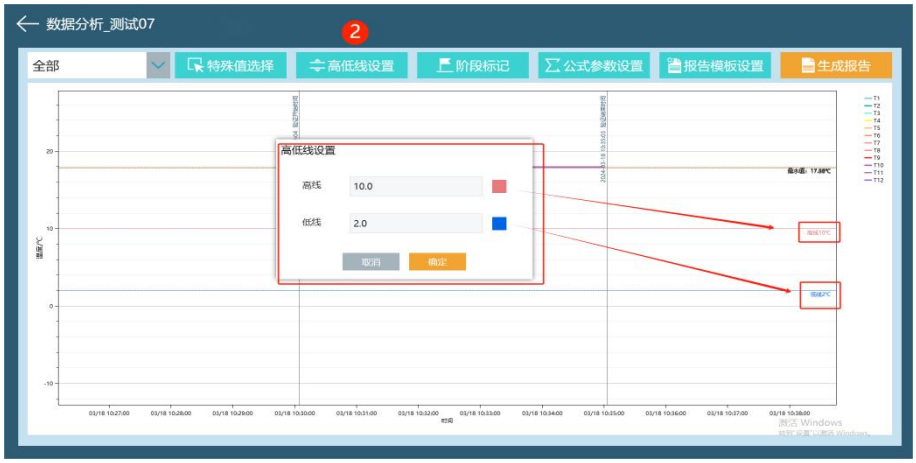


Figure 34-3

③ [Stage Marking], previously marked in the validation interface, can be displayed in the report or modified again, as shown in Figure 35-1

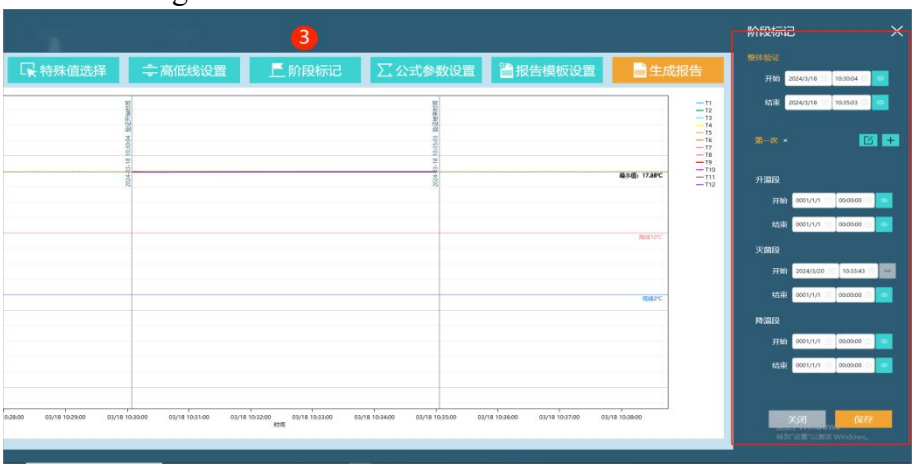


Figure 35-1

④【 Formula parameter settings 】, depending on the item to be sterilized, this default does not represent universality and can be modified by oneself, as shown in Figure 35-2

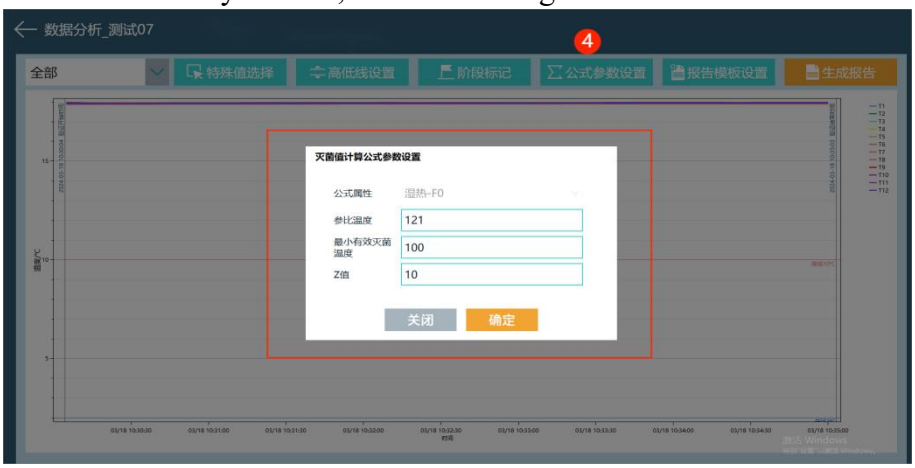


Figure 35-2

⑤ 【 Report Template Setting 】, click to set the report template, and finally save it, as shown in Figure 36-1

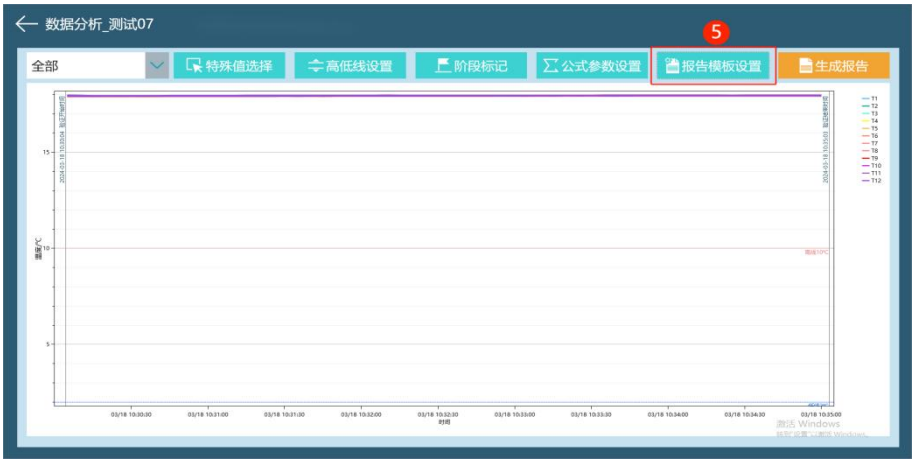


Figure 36-1

⑥ Generate Report, click on Generate Report, select the report style that needs to be generated, as shown in Figure 36-2

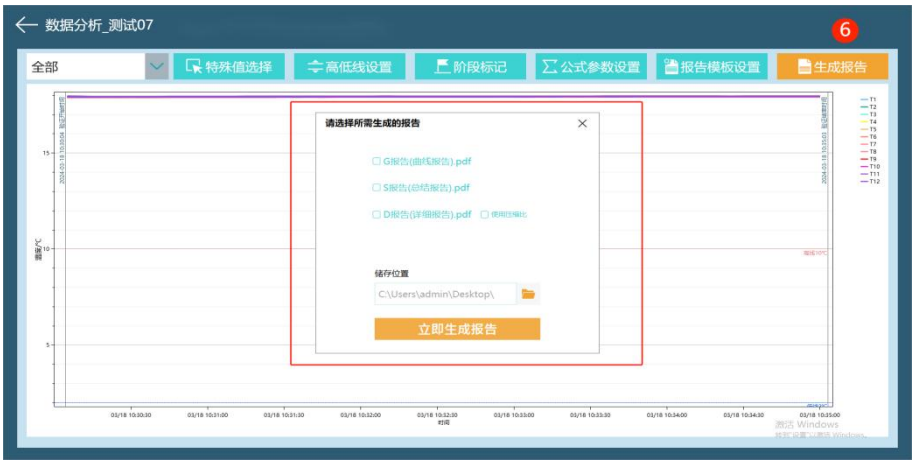


Figure 36-2

4.2.2.5 Verification Engineering

1) Click on the verification project on the homepage, as shown in Figure 36-3

Figure 36-3

2) After entering, you can operate engineering management, as shown in Figure 37-1

Figure 37-1

① Modify: Click to modify the project information, as shown in Figure 37-2

Figure 37-2

② Copy: Click to copy the project, as shown in Figure 37-3

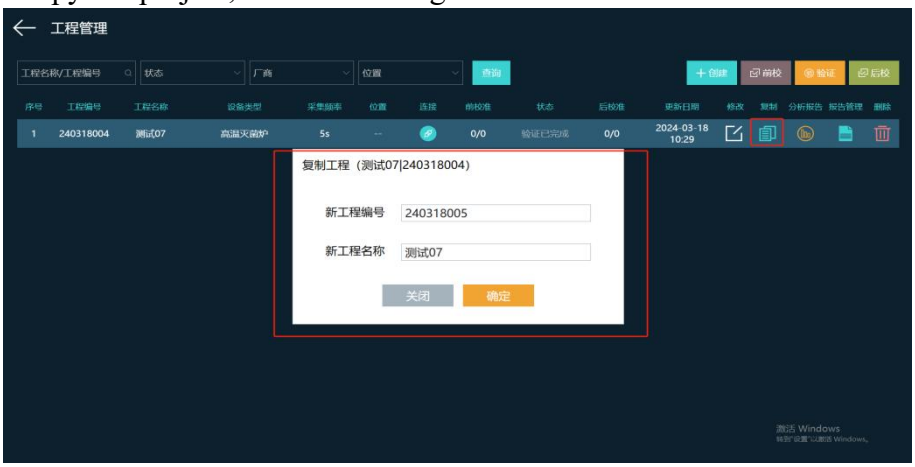


Figure 37-3

③ Analysis Report: Click to enter the analysis report interface, as shown in Figure 38-1

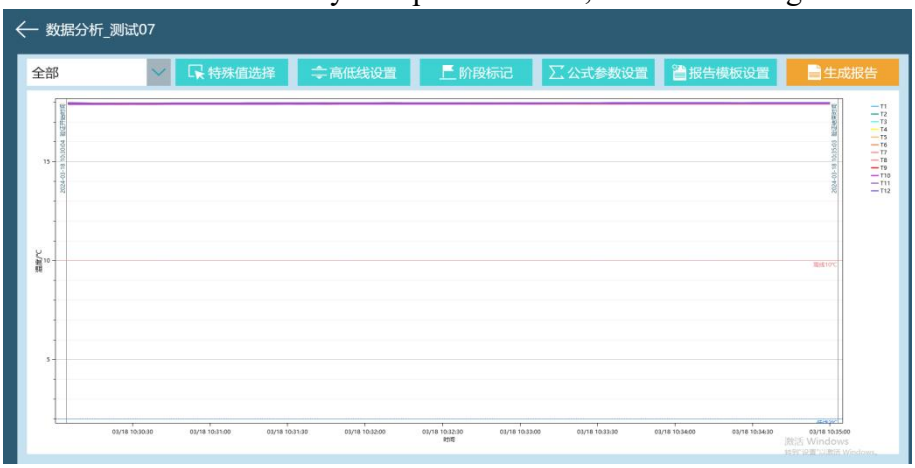


Figure 38-1

④ Report Management: After clicking, enter the report management page, as shown in Figure 38-2

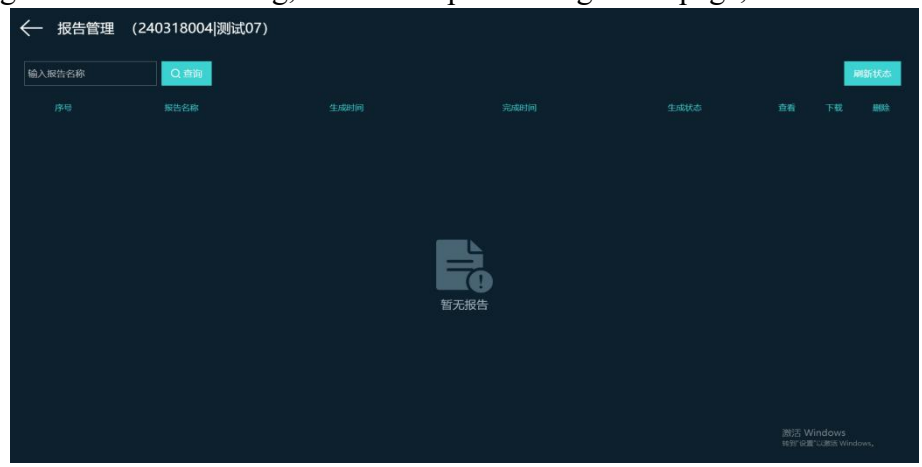


Figure 38-2

⑤ Delete operation, as shown in Figure 38-3

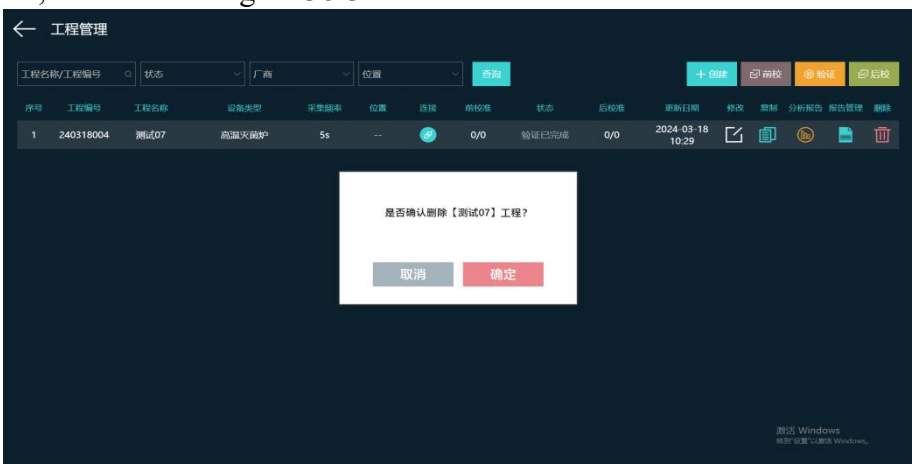


Figure 38-3

4.2.2.6 Audit Trail

1) Click on the audit trail on the homepage, as shown in Figure 39-1

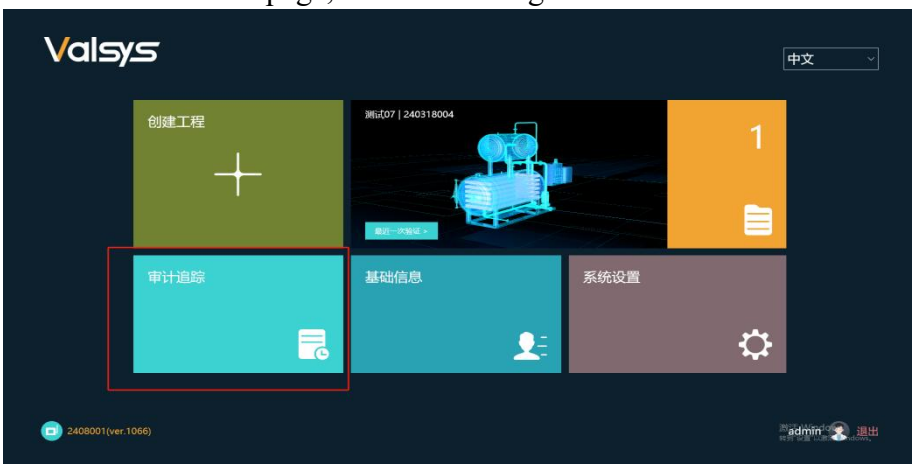


Figure 39-1

2) After entering, audit tracking and log operation queries can be performed, as shown in Figure 39-2

Figure 39-2

5. Version update records

version	Correction date	Version Description
V1.2	March 21, 2024	Document beautification
V1.1	March 21, 2024	Document modification
V1.0	March 21, 2024	Document creation

Head office: Beijing Guoshangxin Technology Co., Ltd

Official website: www.gsino.cn

Cloud platform: www.beehooe.cn

Email: menggq@gsino.cn

Address: A4-1, Hongzhuang International Cultural Bonded Innovation Park, Chaoyang North Road, Chaoyang District, Beijing

Branch: Wuxi Guoshangxin Technology Co., Ltd

Email: nijy@gsino.cn

Address: Room C203, Block C, Chuangye Building, No. 18 Qingyuan Road, Xinwu District, Wuxi City

After sales hotline: 400-800-3508

After sales address: Room 203, Building C, 530 Entrepreneurship Building, No. 18 Qingyuan Road, Xinwu District, Wuxi City, Jiangsu Province

Recipient: Guoshangxin Phone: 13811231690

(Please contact customer service first and leave a note with the reason for returning the device and the recipient information.)

Official account applet Android APP

FCC Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.