

# Frigga Data Center

## User Manual

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# **I Introduction**

## **1.1 Overview**

Frigga Data Center Software is comprehensive desktop software designed for analyzing and managing the temperature and humidity data recorded by Frigga data loggers.

The software integrates the most dependable temperature and humidity sensing technology and the most advanced system kernel to date. It is characterized of reliable data, quick response, simple operation and other strong functions, enabling users to track and collect temperature and humidity data of sensitive products timely and accurately in their testing, production, transport and storage, so that the whole cold chain can be monitored and traced with product safety guaranteed.

## **1.2 Installation environment requirement**

Pentium 1GHz or above, 2G or more

A hard drive with 1GB available disk space

Windows 10 / 11

Mouse or other pointing device

A VGA monitor with display resolution 1440 x 900 pixels or better

Computer administrator account

## II Install & Start

### 2.1 Install

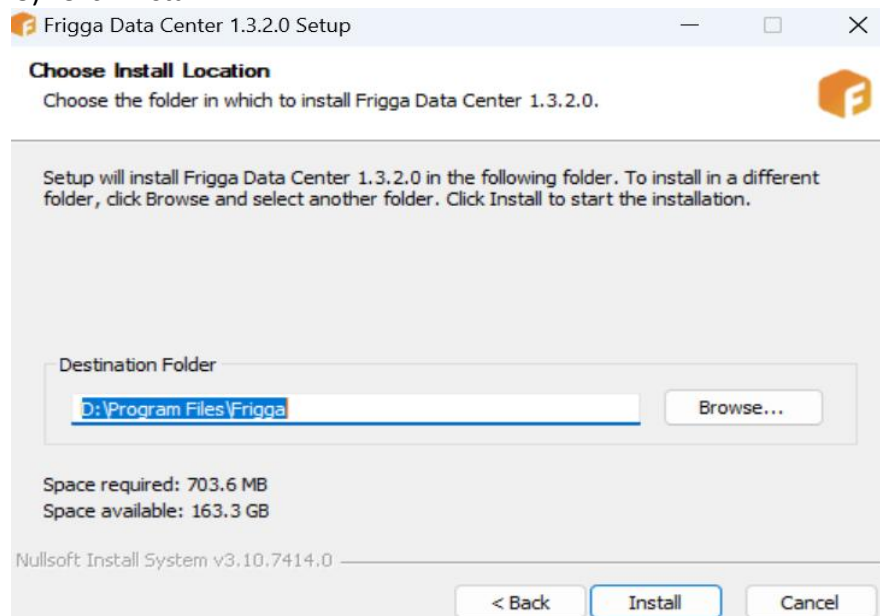
**Installation link :** Go to <https://www.friggatech.com/application>, download “Frigga Data Center”.

1) Double click installer to start installation.




2) Select destination folder

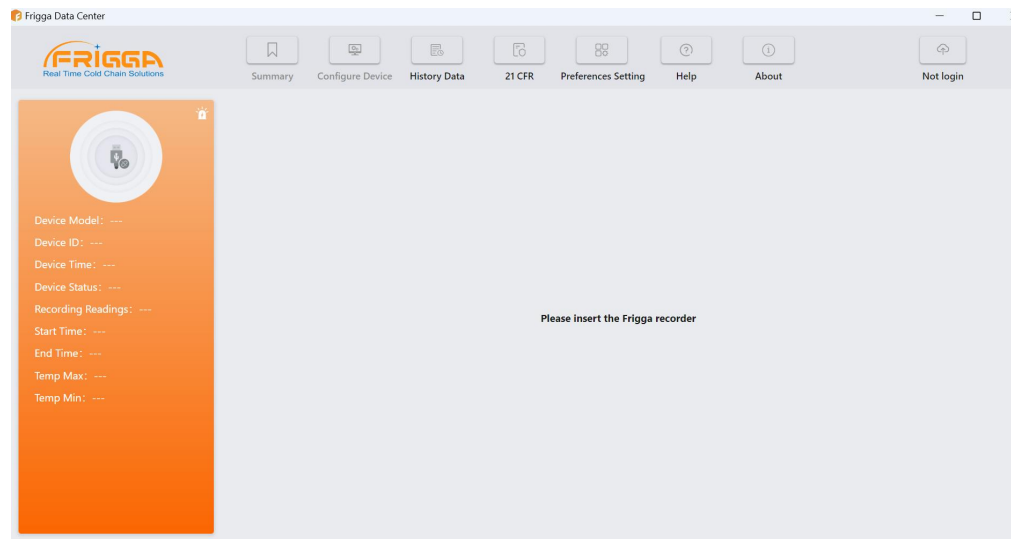
3) Click Install.



4) Click Finish and installation completes.

## 2.2 Start

Double click  on your computer desktop to start the software.

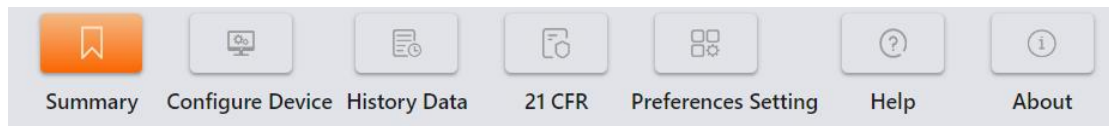


## 2.3 Uninstall

- 1) Open Windows start menu, find this software.
- 2) Right click Uninstall to enter Add or Remove Programs.
- 3) click Uninstall.
- 4) Wait until uninstallation completes.

## III Functions

### 3.1 Toolbar



**Summary:** After successfully downloading the data, the software will show the logger's basic information, statistics.

**Configure Devices:** Users can set the parameters of a connected data logger, including log interval, start delay, Shipment ID, Shipment Note and alarm settings.

**History Data:** The data downloaded from the logger is automatically saved to the database, so users can view the data anytime. Data can also be filtered as needed. Users can also view data of a selected time range, filter alarm data, drag and select multiple lines of data. The data of multiple devices can be viewed and compared at the same time. It supports multi-graph drawing, parameter comparison and other functions.

**21 CFR:** FDA 21 CFR Part 11 Module

**Preferences Setting:** Includes Basic Settings and Cloud Settings. Basic Settings includes four tabs: Option to change date/time format, language and temperature unit. Cloud Settings supports two methods of uploading.

**Help:** User Manual.

**About:** About us.

## **IV Download Data**

### **4.1 Connect data logger**

Connect the data logger to a computer for downloading data. Only one logger can be connected to the software at a time. It does not support simultaneous operation of multiple loggers.

### **4.2 Read data**

Click “Reload” on the toolbar to read and download the data in the logger. If the data logger is connected for the first time, the software will automatically read and download the data.

### **4.3 Store data**

After downloaded, the data will be saved to the database automatically. The data can be viewed in "Database" interface.



## V Summary

### 5.1 Device information

**Device ID:** The unique ID of the data logger. It cannot be changed.

**Device Time:** the current time of the device.

**Battery Level:** The current remaining power of the device.

**Device Status:** The current working status of the logger.

**Record Points:** The amount of readings the software downloads from the logger.

**Start Time:** The time when the logger starts running.

**End Time:** The time when the logger stops running.

**Temp Max:** The maximum value of the recorded temperature readings.

**Temp Min:** The minimum value of the recorded temperature readings.

**Humi Max:** The maximum value of the recorded humidity readings.

**Humi Min:** The minimum value of the recorded humidity readings.

**Reload:** Refresh data.

**Calibration Report:** Click to get the calibration report of the device.

### 5.2 Statistical information

**Start Mode:** The mode the logger to be started, including manual start, timing start, immediate start.

**Stop Mode:** The logger's actual stop mode, including temporary stop, stop via software, manual stop.

**Record Interval:** The interval time between two successive points of data.

**Start Delay:** The time from the logger started to the first point saved.

**Repeated Start:** The logger is started repeatedly, and the previously recorded data is cleared after a new startup.

**Display Time:** The logger's on screen display time.

**Firmware Version:** The logger's internal program version number.

**High Temp Alarm:** The maximum of temperature threshold.

**Low Temp Alarm:** The minimum of temperature threshold.

**Humi Threshold max:** The maximum of humidity threshold.

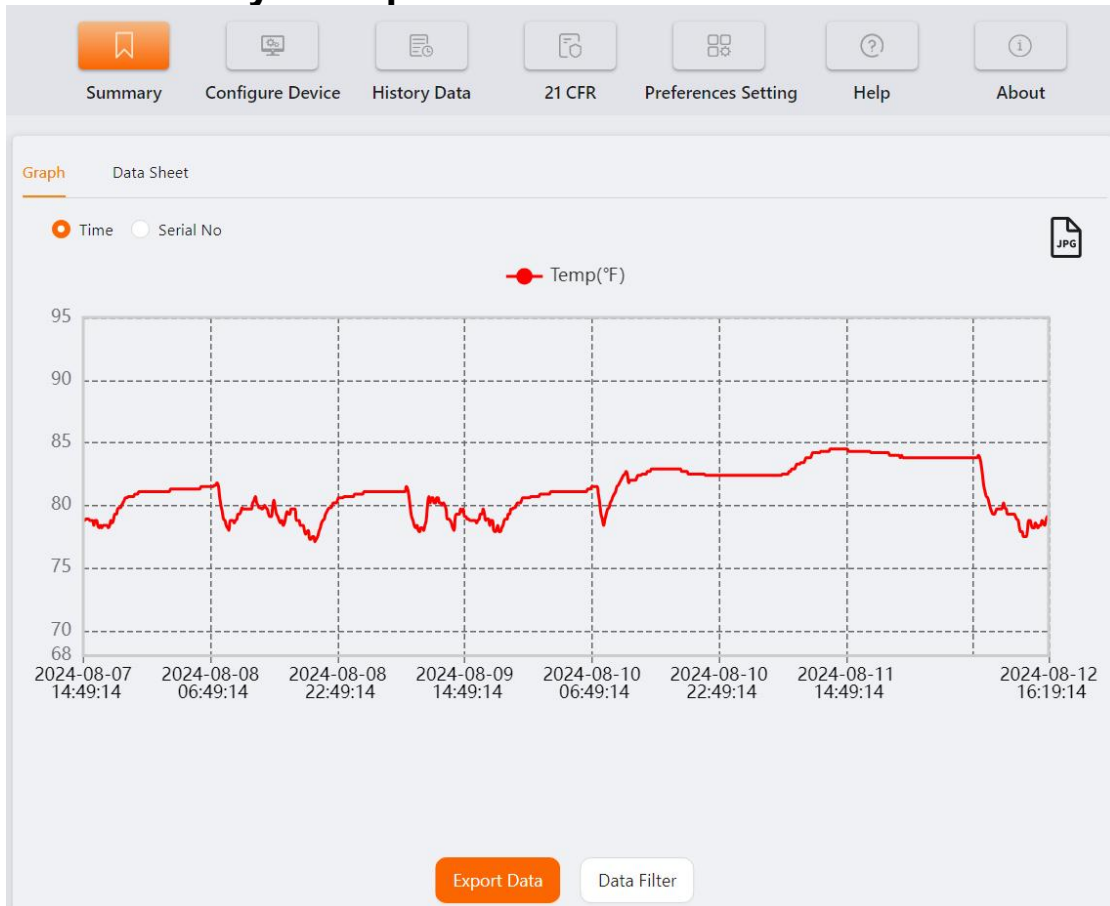
**Humi Threshold min:** The minimum of humidity threshold.

**Shipment ID:** Customized options designed for logistics, cold chain transportation companies.

**Shipment note:** Customized options designed for logistics, cold chain transportation companies.

*Note: The specific configuration items may vary depending on the device model.*

## 5.3 Summary - Graph



Click the "Graph" tab to display currently selected data of the logger. It can be the data of a currently connected logger or the historical data stored in the database.

The red one of the graph shows the temperature scale value and the blue one shows the humidity scale value.

The graph supports zoom functions, allowing the user to zoom in and zoom out.

## 5.4 Summary-Data Sheet

Graph **Data Sheet**

M2D (M1000006)

Serial No	Time	Temp (°F)
1	2024-08-07 14:49:14	78.9
2	2024-08-07 14:59:14	78.8
3	2024-08-07 15:09:14	78.9
4	2024-08-07 15:19:14	78.9
5	2024-08-07 15:29:14	78.9
6	2024-08-07 15:39:14	78.8
7	2024-08-07 15:49:14	78.8
8	2024-08-07 15:59:14	78.8
9	2024-08-07 16:09:14	78.4
10	2024-08-07 16:19:14	78.8

Click the "Data sheet" tab to display currently selected data of the logger. It can be the data of a currently connected logger or the historical data stored in the database.

## 5.5 Data Filter

Data Filter

×

Start Time:

End Time:

2024-08-07 14:49:14

→

2024-08-12 16:19:14

📅

Confirm

Cancel

Cancel filtering

Click the "Data Filter" button at the bottom right. Select "Start time" and "End time", and click "Confirm", the software will automatically filter the data within specified time period. After data filtered, the software will automatically redraw the graph, table, and summary.

## 5.6 Export Data

Export Data

Date:
2024-08-07 14:49:14
→
2024-08-12 16:19:14

Sensor Data:
☒ Temp

Export As:
PDF

PDF Language:
English

Temp:
°F

Temp threshold:
-22.0
~
158.0
(°F)

Cancel
Export Data

Click the "Export Data" button at the bottom left to export report to PDF or Excel format.

## VI Configure Devices

### 6.1 Basic parameters

**Recording Interval:** The interval time between two successive points of data

**Time Zone:** Set the required time zone

**Start Mode:** The mode the logger to be started

**Temp threshold min:** The minimum of temperature threshold

**Temp threshold max:** The maximum of temperature threshold

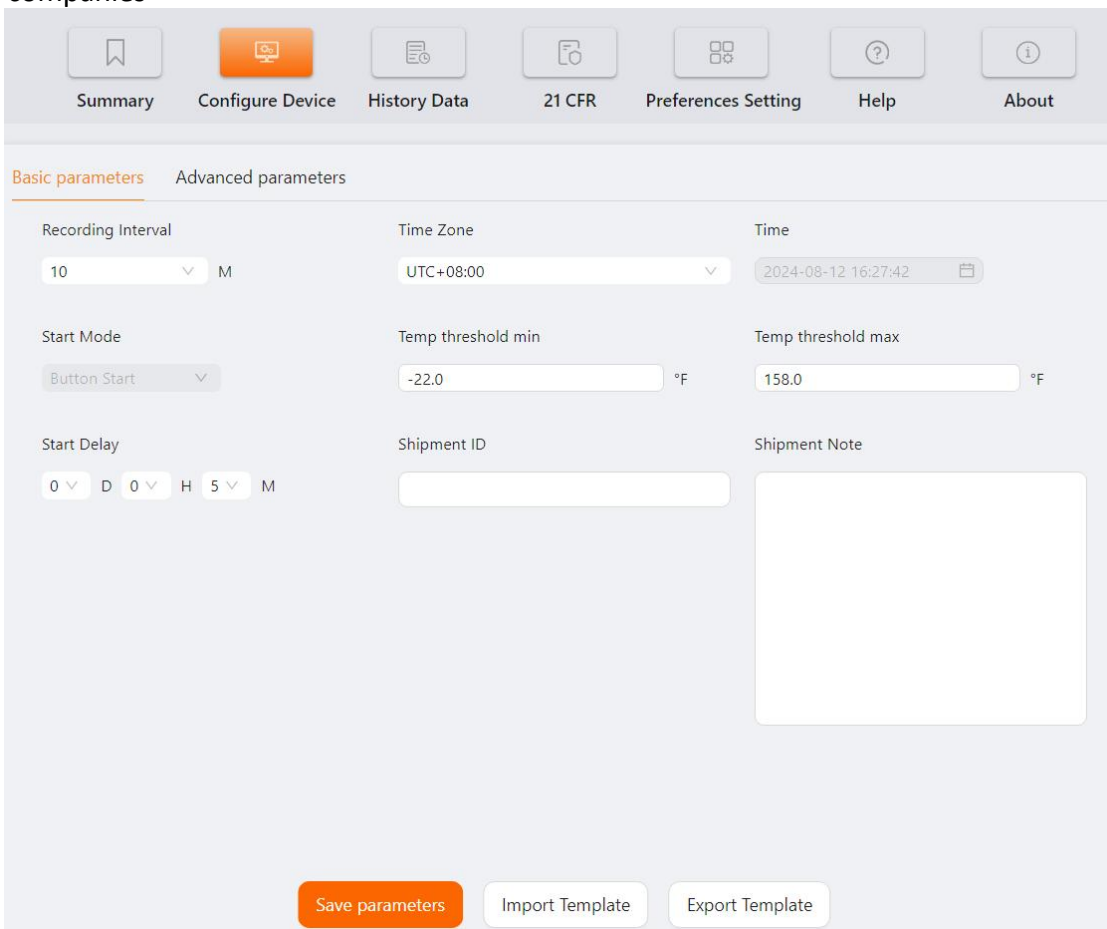
**Humi threshold min:** The minimum of humidity threshold

**Humi threshold max:** The maximum of humidity threshold

**Start Delay:** The time from the logger started to the first point saved

**Shipment ID:** Customized options designed for logistics, cold chain transportation companies

**Shipment Note:** Customized options designed for logistics, cold chain transportation companies



The screenshot displays the 'Configure Device' interface with a top navigation bar containing icons for Summary, Configure Device (active), History Data, 21 CFR, Preferences Setting, Help, and About. Below the navigation bar, there are two tabs: 'Basic parameters' (selected) and 'Advanced parameters'. The 'Basic parameters' section contains the following fields:

- Recording Interval:** A dropdown menu set to '10' with a unit selector 'M'.
- Time Zone:** A dropdown menu set to 'UTC+08:00'.
- Time:** A date and time field showing '2024-08-12 16:27:42' with a calendar icon.
- Start Mode:** A dropdown menu set to 'Button Start'.
- Temp threshold min:** A text input field set to '-22.0' with a unit selector '°F'.
- Temp threshold max:** A text input field set to '158.0' with a unit selector '°F'.
- Start Delay:** A time picker showing '0' D, '0' H, and '5' M.
- Shipment ID:** A large text input field.
- Shipment Note:** A large text area.

At the bottom of the interface, there are three buttons: 'Save parameters' (orange), 'Import Template', and 'Export Template'.

## 6.2 Advanced parameters

**Temperature unit:** Celsius / Fahrenheit.

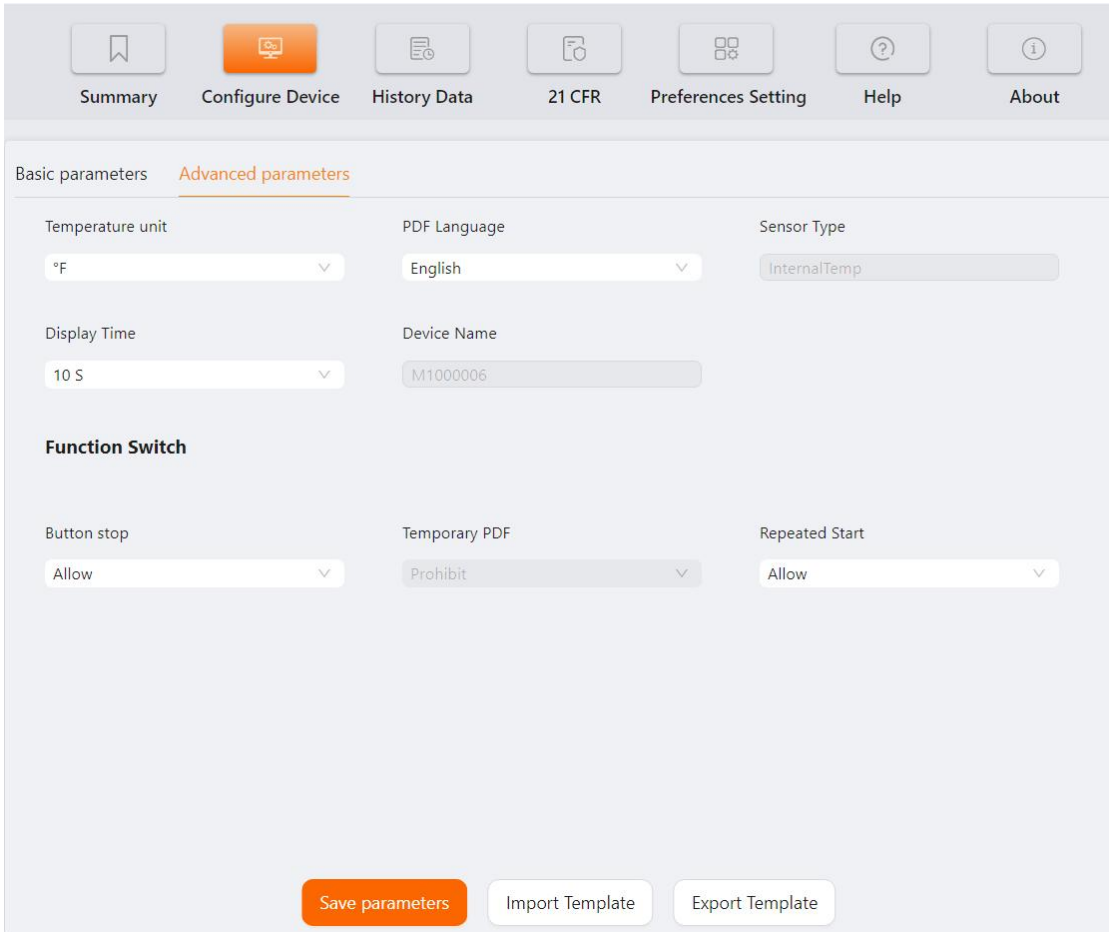
**PDF Language:** The PDF report generated is in English / Chinese.

**Display Time:** The logger's on screen display time

**Device Name:** Device ID

**Button Stop:** The way that the logger is stopped

**Repeated Start:** The logger is started repeatedly, and the previously recorded data is cleared after a new startup.



Summary Configure Device History Data 21 CFR Preferences Setting Help About

Basic parameters **Advanced parameters**

Temperature unit °F PDF Language English Sensor Type InternalTemp

Display Time 10 S Device Name M1000006

**Function Switch**

Button stop Allow Temporary PDF Prohibit Repeated Start Allow

Save parameters Import Template Export Template

## 6.3 Parameter template

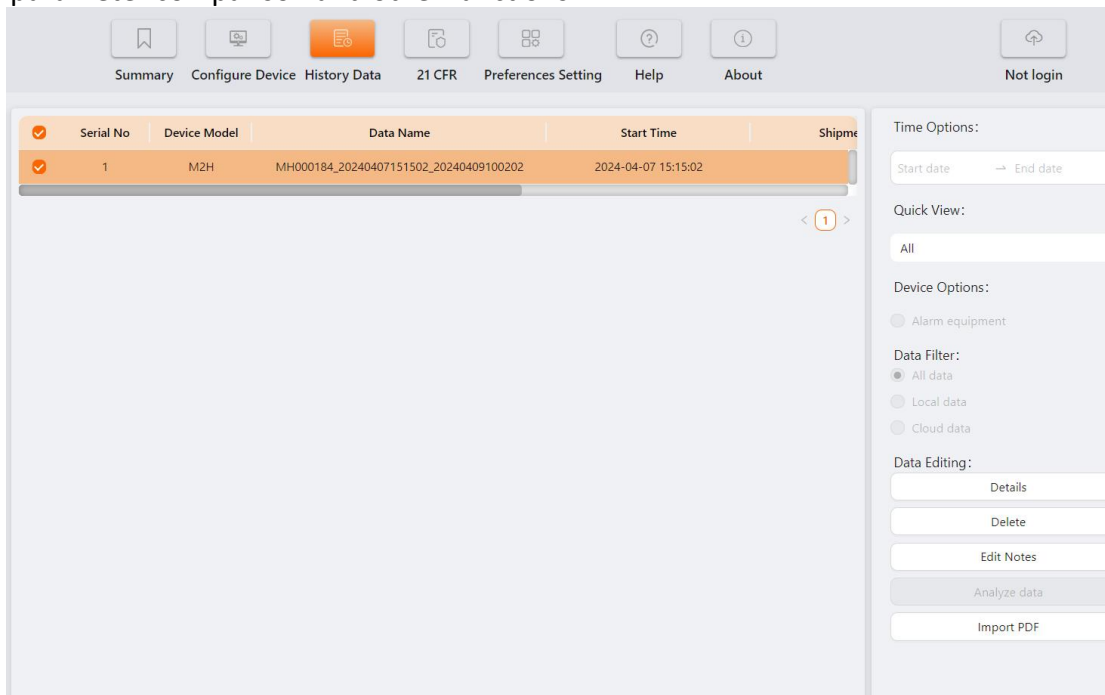
**Export template:** The parameter values in current page are saved as a file.

**Import template:** Reads the specified parameter template file and loads the parameter values in the file into the interface.

## VII Database

### 7.1 History Data

Click "History Data" on the toolbar to query historical data. The data downloaded from the logger is automatically saved to the database and can be filtered as needed. Default display all the data. Users can also view data of a selected time range, filter alarm data, drag and select multiple lines of data. The data of multiple devices can be viewed and compared at the same time. It supports multi-graph drawing, parameter comparison and other functions.



Serial No	Device Model	Data Name	Start Time	Shipme
1	M2H	MH000184_20240407151502_20240409100202	2024-04-07 15:15:02	



## 7.2 Filter data

Select the time range in certain month(s), the software will automatically filters out the historical data for that time period and displays the data in the table.

Time Options:

Start date
→
End date

Quick View:

All

All
One Month
Three Months
Six Months

## 7.3 Data Operation

**View the details:** Click the "Detail" button in the right sidebar to view the data details in graph, table or summary.

<input type="checkbox"/>	Serial No	Device Model	Data Name	Start Time
<input checked="" type="checkbox"/>	1	M2D	M1000006_20240807144414_20240812161914	2024-08-07 14:49:14
<input type="checkbox"/>	2	M2E	M6000333_20240807151334_20240812133334	2024-08-07 15:23:34

Data Editing:

Details

Delete

Edit Notes

**Delete the data:** Click the "Delete" button in the right sidebar to delete the data.

<input type="checkbox"/>	Serial No	Device Model	Data Name	Start Time
<input checked="" type="checkbox"/>	1	M2D	M1000006_20240807144414_20240812161914	2024-08-07 14:49:14
<input type="checkbox"/>	2	M2E	M6000333_20240807151334_20240812133334	2024-08-07 15:23:34
<input type="checkbox"/>	3	M2E	M6000333_20240806170330_20240807144430	2024-08-06 17:14:30
<input type="checkbox"/>	4	M2D	M1000006_20240731163610_20240807142610	2024-07-31 16:36:10
<input type="checkbox"/>	5	M2E		2024-08-06 17:01:44
<input type="checkbox"/>	6	M2E		2024-08-05 14:59:52
<input type="checkbox"/>	7	M2E		2024-08-02 16:09:12

Delete

Are you sure to delete this data?

Cancel OK

**Edit notes:** Click the "Edit" button in the right sidebar to edit the notes.

<input type="checkbox"/>	Serial No	Device Model	Data Name	Start Time
<input checked="" type="checkbox"/>	1	M		-07 14:49:14
<input type="checkbox"/>	2	M		-07 15:23:34
<input type="checkbox"/>	3	M		-06 17:14:30
<input type="checkbox"/>	4	M		-31 16:36:10
<input type="checkbox"/>	5	M		-06 17:01:44
<input type="checkbox"/>	6	M		-05 14:59:52
<input type="checkbox"/>	7	M		-02 16:09:12

Edit Notes

Device Model

M2D

Device ID

M1000006

Data Name

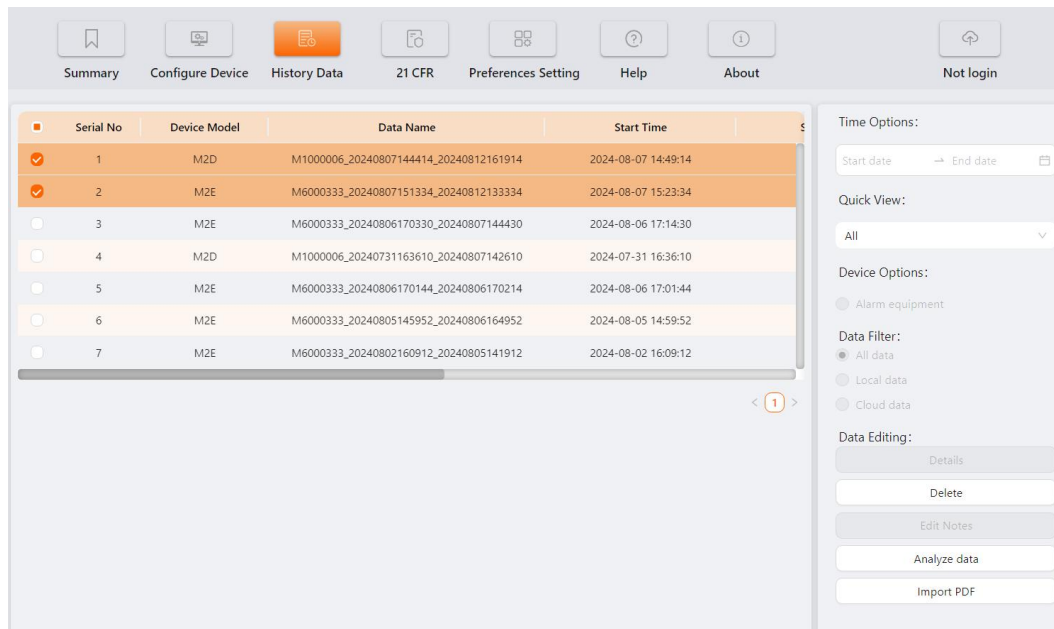
M1000006\_20240807144414\_20240812161914

notes

Cancel OK

## 7.4 Analyze data

**Analyze data:** Click on the required two or more data, and click "Analyze data" button in the right sidebar, the chart can be generated automatically.



Serial No	Device Model	Data Name	Start Time
1	M2D	M1000006_20240807144414_20240812161914	2024-08-07 14:49:14
2	M2E	M6000333_20240807151334_20240812133334	2024-08-07 15:23:34
3	M2E	M6000333_20240806170330_20240807144430	2024-08-06 17:14:30
4	M2D	M1000006_20240731163610_20240807142610	2024-07-31 16:36:10
5	M2E	M6000333_20240806170144_20240806170214	2024-08-06 17:01:44
6	M2E	M6000333_20240805145952_20240806164952	2024-08-05 14:59:52
7	M2E	M6000333_20240802160912_20240805141912	2024-08-02 16:09:12



## VIII System Settings

### 8.1 Preferences Setting

Click “Preferences” on the toolbar to set the date/time format and system language. The latest date and time format will be automatically updated for your use next time.

Preferences Setting

×

Basic Settings

Cloud Settings

Date Format:

YYYY-MM-DD

▼

Example

2024-04-09

Time Format:

HH:mm:ss

▼

Example

10:18:26

System Language:

English

▼

Temperature unit:

°F

▼

## **IX 21 CFR**

### **9.1 FDA 21 CFR Part 11 Module**

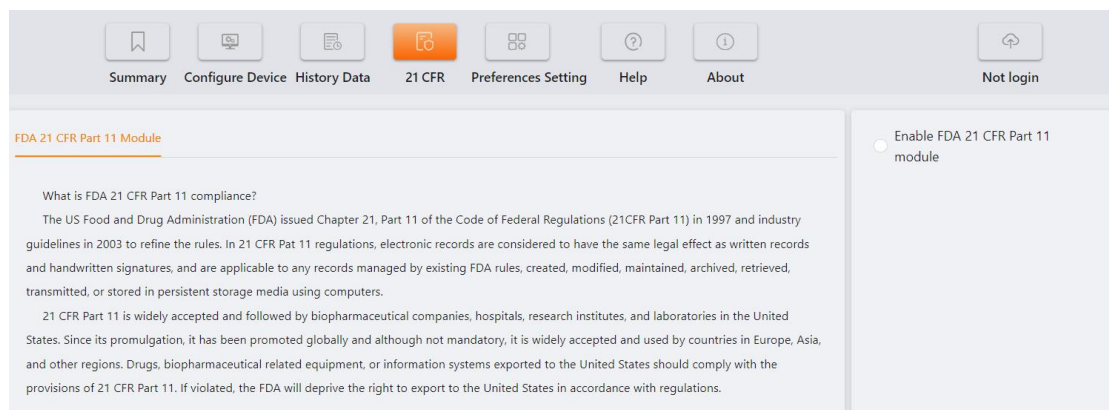
#### **What is FDA 21 CFR Part 11 compliance?**


The US Food and Drug Administration (FDA) issued Chapter 21, Part 11 of the Code of Federal Regulations (21CFR Part 11) in 1997 and issued industry guidelines in 2003 to refine the rules. In 21 CFR Part 11 regulations, electronic records are considered to have the same legal effect as written records and handwritten signatures, and are applicable to any records managed by existing FDA rules, created, modified, maintained, archived, retrieved, transmitted, or stored in persistent storage media using computers.

21 CFR Part 11 is widely accepted and followed by bio-pharmaceutical companies, hospitals, research institutes, and laboratories in the United States. Since its promulgation, it has been promoted globally and although not mandatory, it is widely accepted and used by countries in Europe, Asia, and other regions. Drugs, bio-pharmaceutical related equipment, or information systems exported to the United States should comply with the provisions of 21 CFR Part 11. If violated, the FDA will deprive the right to export to the United States in accordance with regulations.

## 9.2 Activate the Module

Click “Enable” to activate the module. After FDA 21 CFR 11 module is enabled, program will restart for the changes to take effect. Click “OK”.



 This operation will be irreversible.  
Do you want to continue opening  
it?



## 9.3 Initializing Administrator

After FDA 21 CFR Part 11 module enabled, you are required to create an administrator account for login.

InitializeAdministrator ×

\* User name


\* Real name

\* Password

\* Confirm password

\* Position

Cancel OK


  
 FDA 21 CFR

\* User name

admin

\* Password

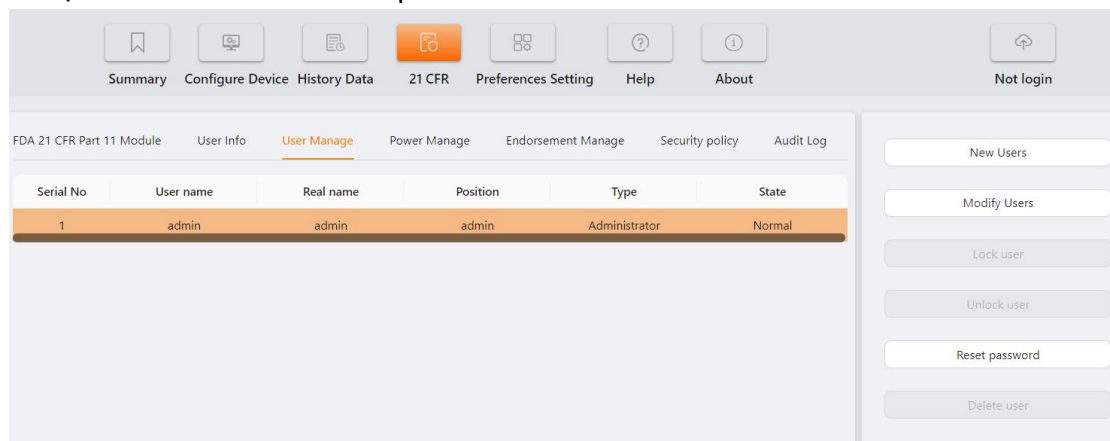
.....

Login Cancel

Language: English

## 9.4 User Management

Administrator account can be used to create user accounts, change user info, lock/unlock user and reset passwords.



### New Users



\* User name

\* Real name

\* Password

\* Confirm password

\* Position

Cancel

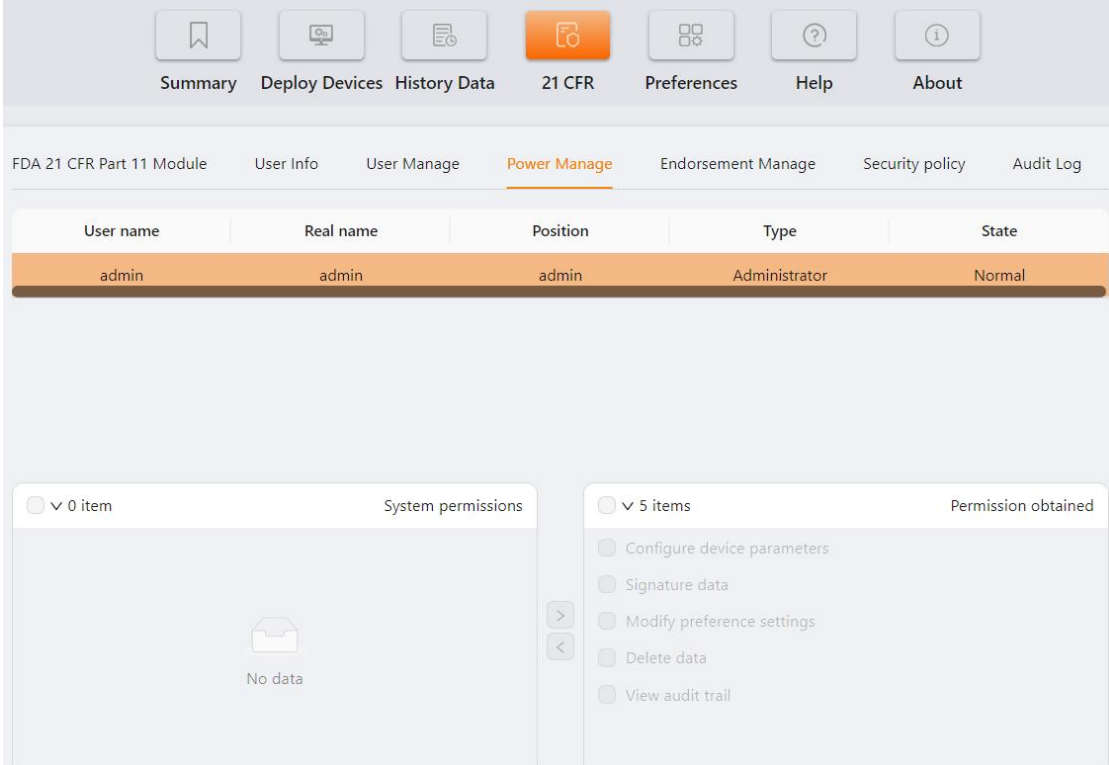
OK



## 9.5 Power Management

Administrator: All system privilege.

Ordinary users: permissions are granted or withdrawn by the administrator as needed.



Summary Deploy Devices History Data **21 CFR** Preferences Help About

FDA 21 CFR Part 11 Module User Info User Manage **Power Manage** Endorsement Manage Security policy Audit Log

User name	Real name	Position	Type	State
admin	admin	admin	Administrator	Normal

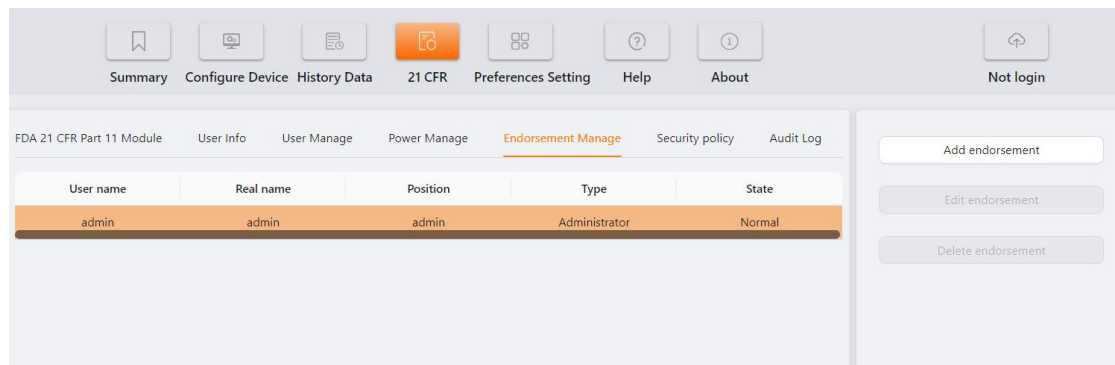
System permissions: 0 item

Permission obtained: 5 items

- Configure device parameters
- Signature data
- Modify preference settings
- Delete data
- View audit trail

## 9.6 Endorsement Management

**Endorsement:** When digitally signing, the user must select an endorsement to digitally sign, and that endorsement information is linked to that data record.



### Add endorsement:

Enter endorsement, click “OK” , it will be saved to database.

Add endorsement
×

Cancel
OK

### Available endorsements:

The list of endorsements shows all available endorsements.

### User Endorsements:

The available endorsements for users are managed by the administrator.

## 9.7 Security Policy

### Number of attempts to log in:

If login attempts exceeds the set times, the account will be locked. Please contact administrator to unlock the account.

### Login protection time:

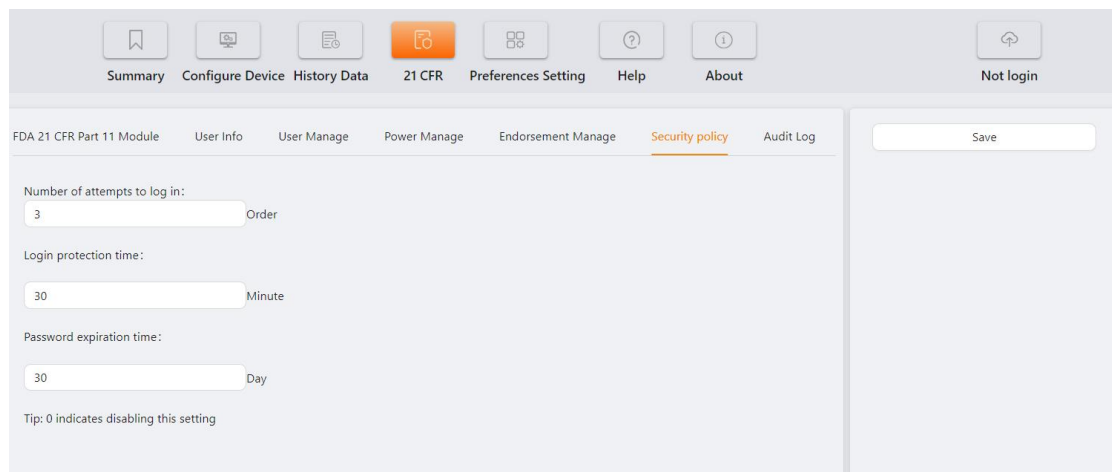
If the system stays inactive after login for a period that exceeds the set time, it will be locked. User must log in again to operate the system.

### Password expiration time:

This setting indicates the password is valid before a certain period of time.

If the password expires, the system will remind the user of changing it .

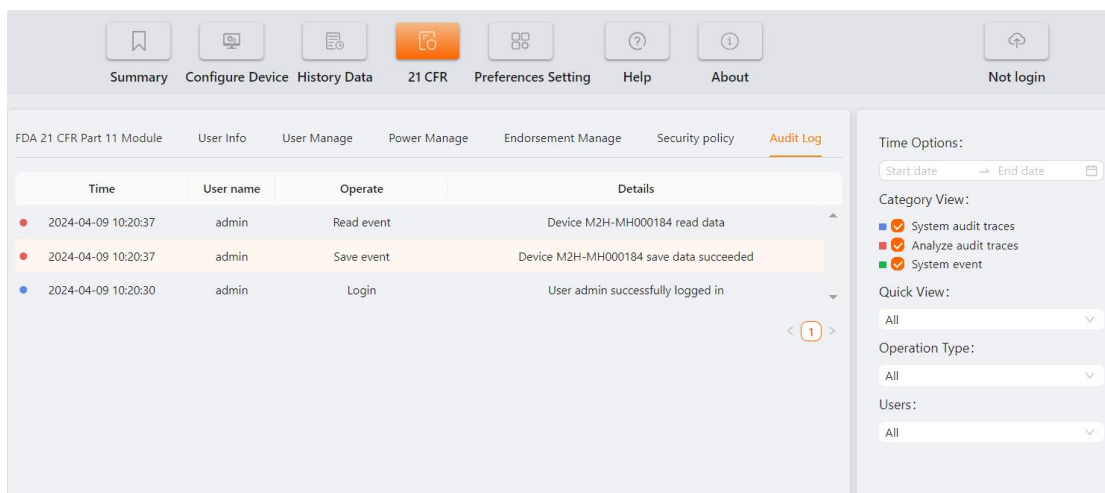
**Tip: 0 indicates that this setting is disabled.**



The screenshot displays the 'Security policy' configuration page in the Frigga Data Center interface. The top navigation bar includes icons for Summary, Configure Device, History Data, 21 CFR (highlighted), Preferences Setting, Help, About, and Not login. Below this, a sub-navigation bar shows links for FDA 21 CFR Part 11 Module, User Info, User Manage, Power Manage, Endorsement Manage, Security policy (highlighted), and Audit Log. The main content area contains three settings: 'Number of attempts to log in' with a value of 3 and a unit of 'Order'; 'Login protection time' with a value of 30 and a unit of 'Minute'; and 'Password expiration time' with a value of 30 and a unit of 'Day'. A tip at the bottom states 'Tip: 0 indicates disabling this setting'. A 'Save' button is located on the right side of the page.

## 9.8 Audit Log

Audit log records the process of the user's operating system, including the log time and operation information, providing a variety of data filtering methods such as: time period query, audit type query, operation type query, user name query and so on.



Time	User name	Operate	Details
2024-04-09 10:20:37	admin	Read event	Device M2H-MH000184 read data
2024-04-09 10:20:37	admin	Save event	Device M2H-MH000184 save data succeeded
2024-04-09 10:20:30	admin	Login	User admin successfully logged in

Time Options: Start date → End date

Category View:

- ☒ System audit traces
- ☒ Analyze audit traces
- ☒ System event

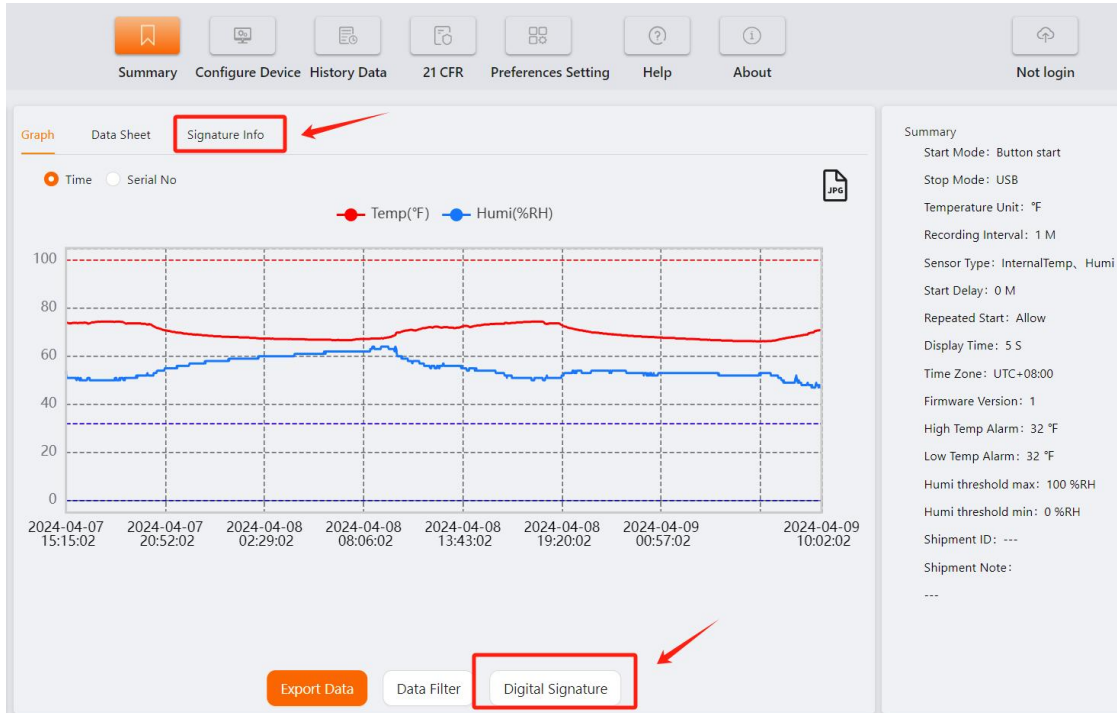
Quick View: All

Operation Type: All

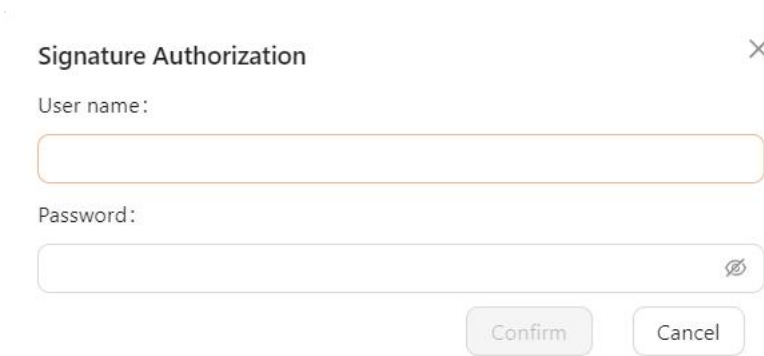
Users: All

## 9.9 Digital Signature

After the data logger is connected to a computer and its data is downloaded to the database successfully, you may click "Graph" icon in the toolbar and then "Digital Signature" to sign.



Enter the user name and password in the popup interface as follows:




The 'Signature Authorization' popup window is shown. It has a title bar with a close button (X). The window contains two input fields: 'User name:' and 'Password:'. The 'Password:' field has a toggle icon (an eye) to the right of it. At the bottom of the window are two buttons: 'Confirm' and 'Cancel'.

# X Cloud Platform Services

## 10.1 Cloud Users Registration

Click "Register" at the left bottom of the screen, then go to the Frigga Cloud Platform registration center.

Cloud user login ×



\* E-mail

\* Password

[Forgot password](#)

Tips: Please select the corresponding type of device to register (real-time device or non-real-time device).

Authentication

Select the corresponding type of device to register (real-time device or non-real-time device)

Real-Time Device

Non-real-time device

\* Device ID

on the front of the device

Enter the "device number" of any new non-real-time device to confirm the identity. Other devices can be added to the cloud platform.

Registration Information

\* Email

Your e-mail address

This Email address is your login account.

\* Verification code

Verification code

Click "Get code" first, and get the verification code from your Email.

\* Password

Password

Password must be at least 6 characters.

\* Re-enter password

Confirm Password

\* Enterprise Name

Enterprise Name


Only one account can be registered for same company name.

\* Your Name

Legal first and last name

Enter your first and last name.

\* Mobile Phone


+86

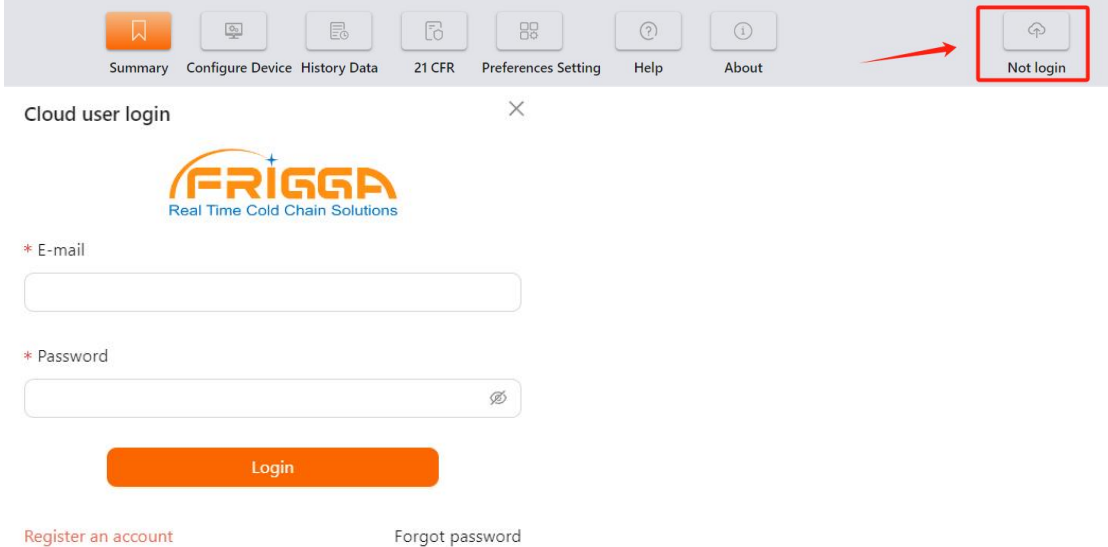
Mobile Phone number

Select your country then enter phone number.

## 10.2 Cloud Users Login

Click the "Not login" button in the upper right corner of the toolbar, see below:

Enter your email and password, click "Login" to complete the login.  
If you have forgotten your password, please click "Forgot Password" to retrieve your password.



## 10.3 Login

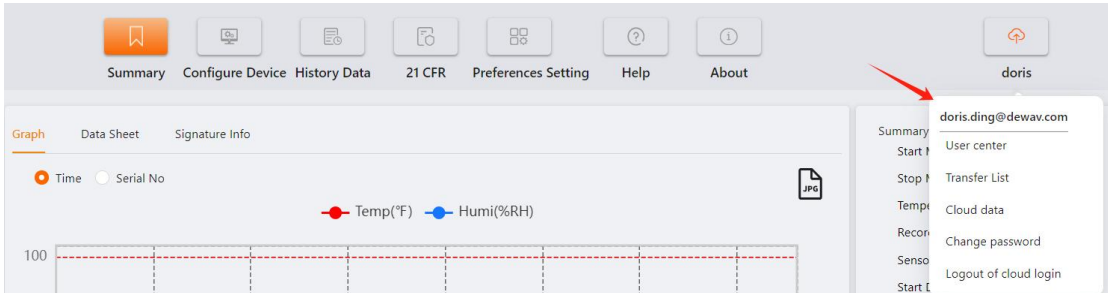
**User Center:** Click to go to Platform User Center

**Transfer List:** Click to open the data upload list

**Cloud Data:** Click to go to Platform Device Center

**Change Password:** Click to go to Platform User Center to modify

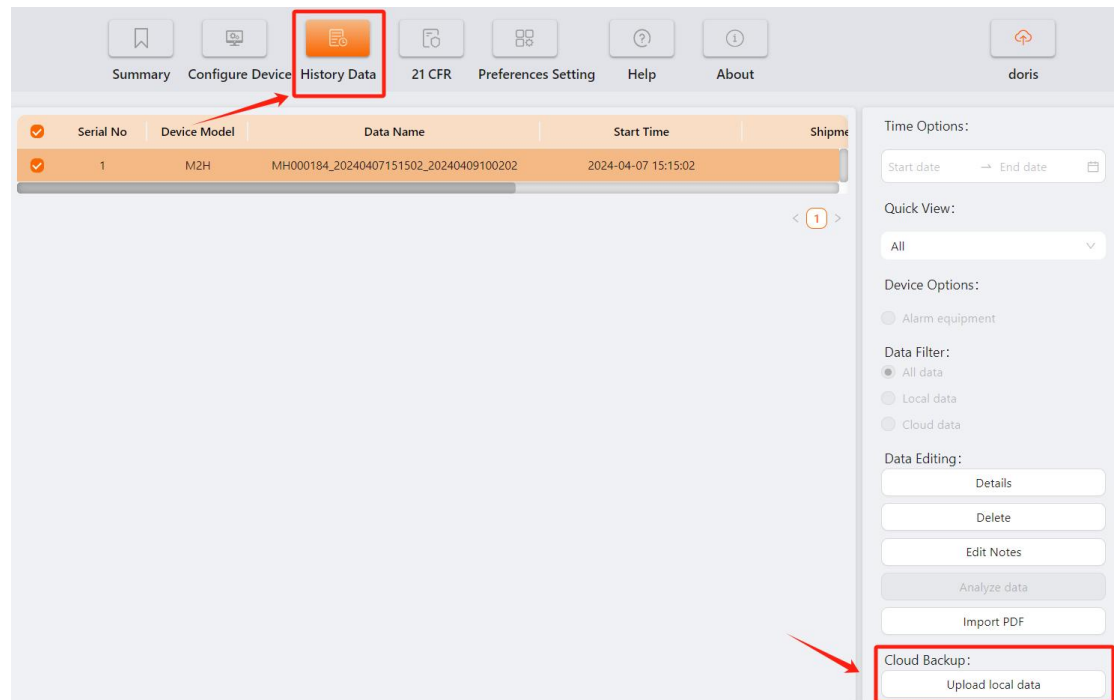
**Logout of cloud login:** Log out



## 10.4 Data Uploading

### Manual Data Uploading

Click the "History Data" button of the toolbar, select the data you want to upload, and then click "Upload local data".



The interface of successful data upload is as follows:

Transfer List

To be uploaded

Uploading

Completed

Other

Device Model	Data Name	Task time	Transfer Status	Operate
M2H	MH000184_20240402164656_20240402164856	2024-04-02 18:54:00	Complete	

<

1

>



## Automatic Data Uploading

Configurable in “Preferences Setting”, effective after cloud user login.

*Please note: Automatic upload will only take effect on new data.*

Preferences Setting

Basic Settings

Cloud Settings

Upload method:

Automatic upload

Manual upload

Automatic upload

Preferences

Basic Settings

Cloud Settings

Upload method:

Automatic upload

Note: Automatic upload will only take effect on newly added data

## 10.5 Transfer List

**To be uploaded:** Data that is waiting to be uploaded

**Uploading:** Data being uploaded

**Completed:** Data that have been uploaded and can be viewed on the platform

**Other:** Data that failed to be uploaded and can be retried.

Transfer List

Device Model	Data Name	Task time	Transfer Status	Operate
M2H	M2H_MH46000390_20231213171424	2024-04-03 11:03:09	Device not supported	<a href="#">Retry</a> <a href="#">Delete</a>
M2H	M2H_MH46000390_20231213174400	2024-04-03 11:03:08	Device not supported	<a href="#">Retry</a> <a href="#">Delete</a>
M2H	M2H_MH46000390_20231215153020	2024-04-03 11:03:08	Device not supported	<a href="#">Retry</a> <a href="#">Delete</a>
M2H	M2H_MH46000390_20231220111653	2024-04-03 11:03:07	Device not supported	<a href="#">Retry</a> <a href="#">Delete</a>
M2E	M1000002_20240229161134_20240229161234	2024-04-03 11:03:07	Model does not exist	<a href="#">Retry</a> <a href="#">Delete</a>
M2D	0123456789AB_20240115090405_20240115151705_20240124122627	2024-04-03 11:03:02	Model does not exist	<a href="#">Retry</a> <a href="#">Delete</a>
M2D	0123456789AB_20240122062144_20240122120244	2024-04-03 11:03:01	Model does not exist	<a href="#">Retry</a> <a href="#">Delete</a>
M2D	0123456789AB_20240130113102_20240130154302	2024-04-03 11:03:01	Model does not exist	<a href="#">Retry</a> <a href="#">Delete</a>
M1D	0123456789AB_20240304015957_20240304034657	2024-04-03 11:03:00	Model does not exist	<a href="#">Retry</a> <a href="#">Delete</a>
M2D	M2D_0123456789AB_20231219191029	2024-04-03 11:03:00	Model does not exist	<a href="#">Retry</a> <a href="#">Delete</a>

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Transfer List

Device Model	Data Name	Task time	Transfer Status	Operate
M1H_Reacon	MC000007_20240327115200_20240327163700_20240402143932	2024-04-03 11:19:28	Complete	
M2H	MH5C0183_20240327163921_20240327164021_20240327164424	2024-04-03 11:19:27	Complete	
M2H	MH5C0183_20240327164521_20240327170821_20240327171450	2024-04-03 11:19:26	Complete	
M2H	M2H_MH5C0183_20240122142716	2024-04-03 11:19:25	Complete	
M2H	M2H_MH5C0183_20240129192659	2024-04-03 11:19:24	Complete	

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