Radar APP User Manual

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The Device Master App is the company's latest mobile client product. It facilitates users' needs for debugging and data viewing when using the company's radar water measurement products. The client features a user-friendly interface, one-click login, real-time and historical data viewing and export, equipment parameter settings, data statistics, and data alarms. It provides convenience for daily equipment use.

1 Device Master App Download

Copy and paste the following link into your mobile browser to download and install the app.

http://app-hj-n.oss-cn-hangzhou.aliyuncs.com/app-n/app_res_n_v1.2.8.apk

Note this APP is only applicable to Android system

Account: CJ001

Password: 20190920

Bluetooth APP download QR code

Note:

1. Use your browser to scan this QR code directly to download the app.
2. We reserve the right to update the software without prior notice.

2 Online Data Viewing

2.1 Login Method

The client uses a one-click login method with a mobile phone number. After the user's mobile phone number is authorized, the client will automatically identify whether the mobile phone number used is an authorized number each time the user logs in. If it is, one-click login is possible. This improves account and data security while eliminating the need for users to remember complicated usernames and passwords, avoiding situations where they cannot log in due to forgotten passwords.

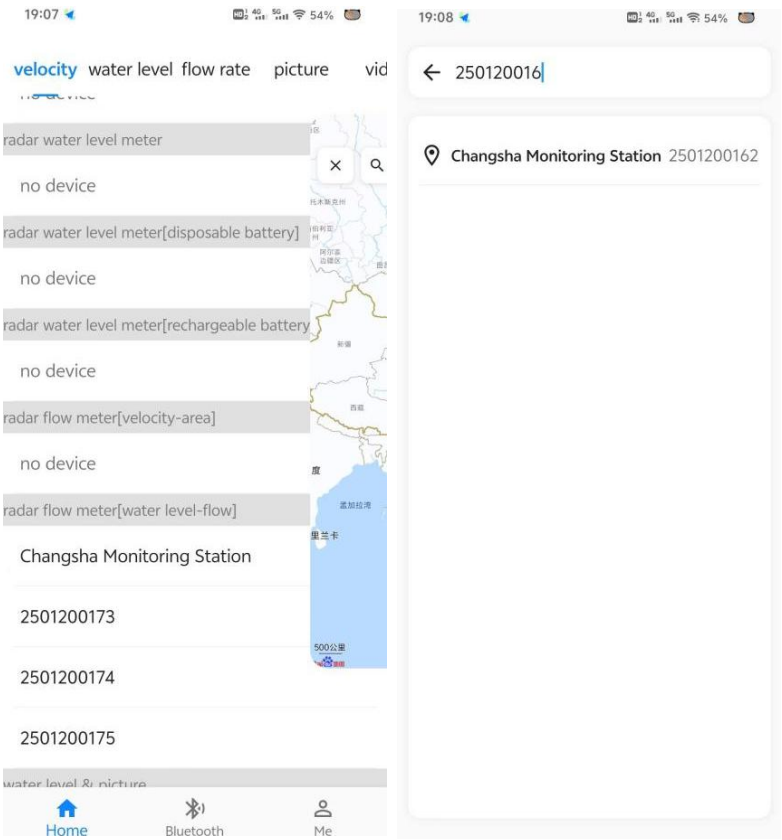
Client icon and main interface after login.





2.2 Data viewing

To view equipment, click the button in the upper right corner ≡ to open the equipment list, or enter the station name or code in the search bar to quickly find the equipment. You can also directly click the equipment icon in the homepage map to select the equipment you want to view.

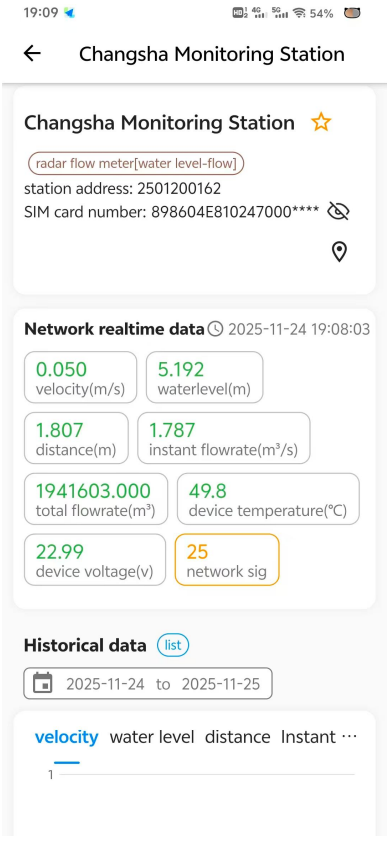


After selecting the device you want to view, you will enter the device information page. The

informa 

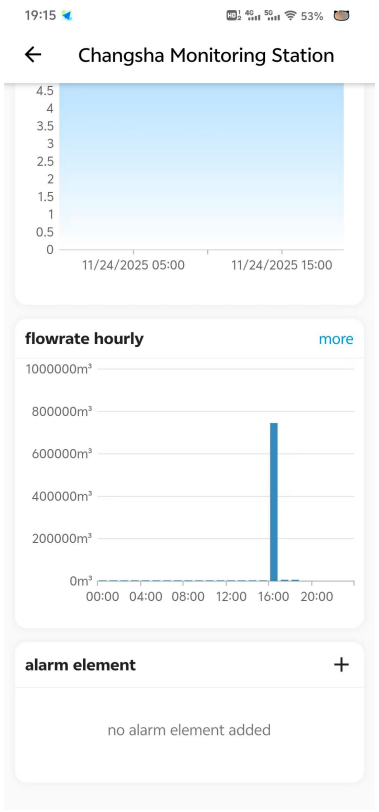
eal-time data and basic device information. Click on details to enter rface.

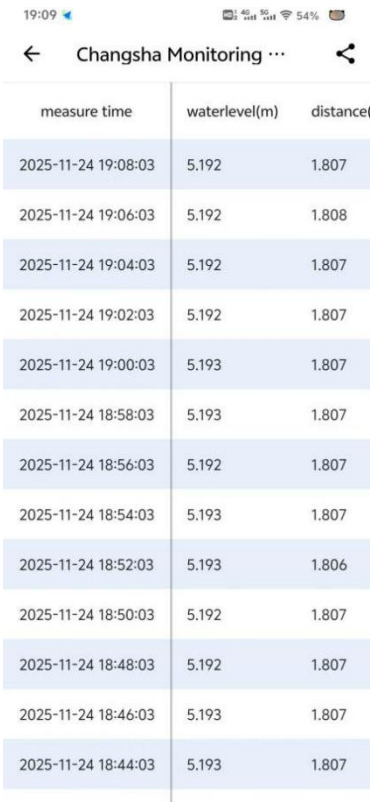




A. Historical data query and export

In the historical data query area, you can freely select and query data curves and lists for the corresponding time period.

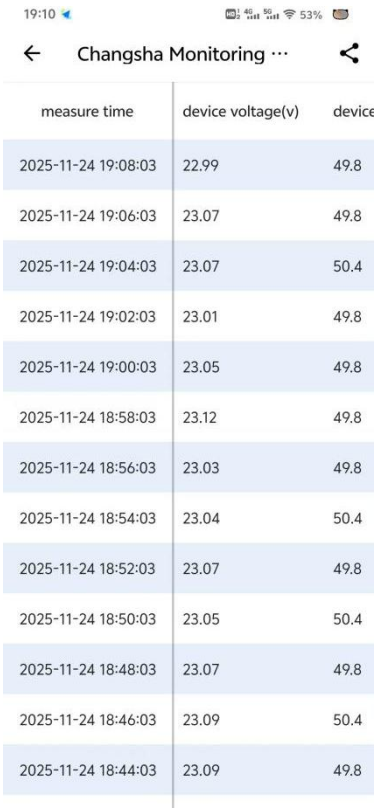




19:09 54%

Changsha Monitoring ···

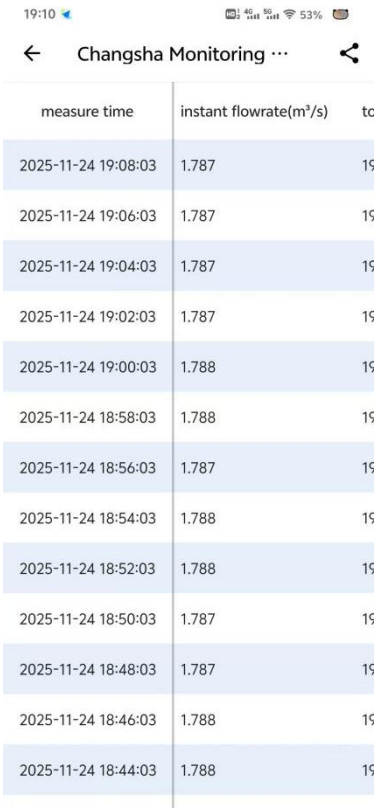
measure time	waterlevel(m)	distance(
2025-11-24 19:08:03	5.192	1.807
2025-11-24 19:06:03	5.192	1.808
2025-11-24 19:04:03	5.192	1.807
2025-11-24 19:02:03	5.192	1.807
2025-11-24 19:00:03	5.193	1.807
2025-11-24 18:58:03	5.193	1.807
2025-11-24 18:56:03	5.192	1.807
2025-11-24 18:54:03	5.193	1.807
2025-11-24 18:52:03	5.193	1.806
2025-11-24 18:50:03	5.192	1.807
2025-11-24 18:48:03	5.192	1.807
2025-11-24 18:46:03	5.193	1.807
2025-11-24 18:44:03	5.193	1.807



19:10 53%

Changsha Monitoring ···

measure time	device voltage(v)	device
2025-11-24 19:08:03	22.99	49.8
2025-11-24 19:06:03	23.07	49.8
2025-11-24 19:04:03	23.07	50.4
2025-11-24 19:02:03	23.01	49.8
2025-11-24 19:00:03	23.05	49.8
2025-11-24 18:58:03	23.12	49.8
2025-11-24 18:56:03	23.03	49.8
2025-11-24 18:54:03	23.04	50.4
2025-11-24 18:52:03	23.07	49.8
2025-11-24 18:50:03	23.05	50.4
2025-11-24 18:48:03	23.07	49.8
2025-11-24 18:46:03	23.09	50.4
2025-11-24 18:44:03	23.09	49.8



19:10 53%

Changsha Monitoring ···

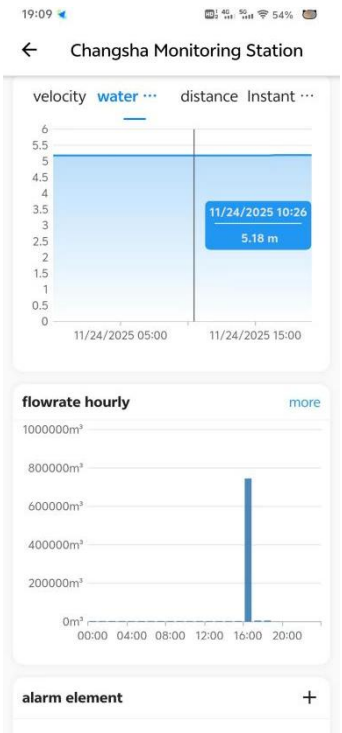
measure time	instant flowrate(m³/s)	to
2025-11-24 19:08:03	1.787	19
2025-11-24 19:06:03	1.787	19
2025-11-24 19:04:03	1.787	19
2025-11-24 19:02:03	1.787	19
2025-11-24 19:00:03	1.788	19
2025-11-24 18:58:03	1.788	19
2025-11-24 18:56:03	1.787	19
2025-11-24 18:54:03	1.788	19
2025-11-24 18:52:03	1.788	19
2025-11-24 18:50:03	1.787	19
2025-11-24 18:48:03	1.787	19
2025-11-24 18:46:03	1.788	19
2025-11-24 18:44:03	1.788	19

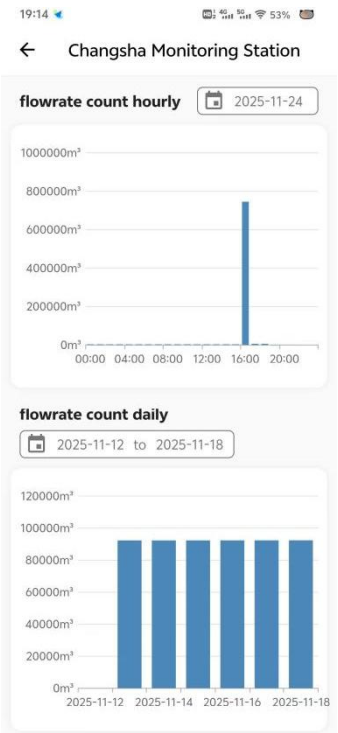
Click the button in the upper right corner to export the data to an Excel spreadsheet for easy viewing, printing, and sending.

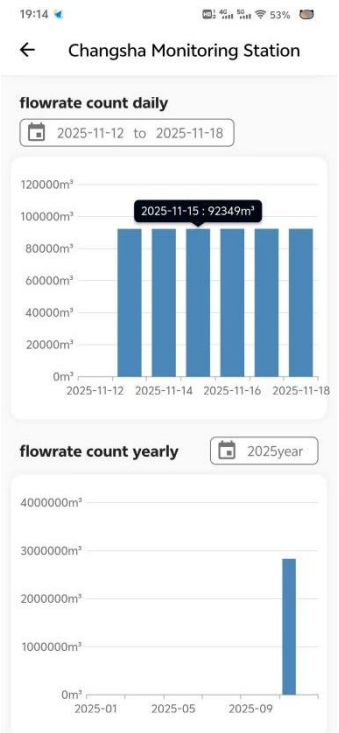


B. Traffic data statistics

Clicking the "More" option in the traffic data display area will take you to the data statistics page, where you can query hourly, daily, and yearly traffic data.



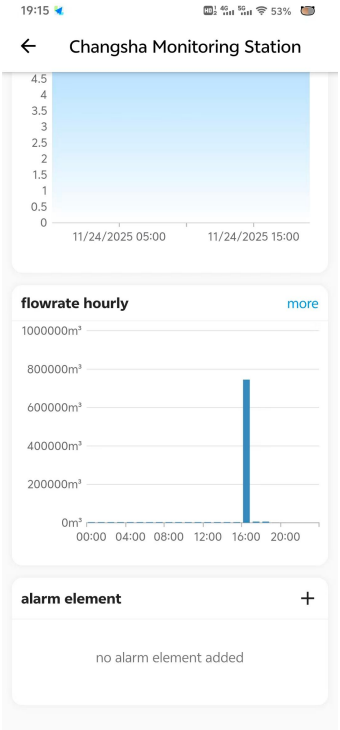


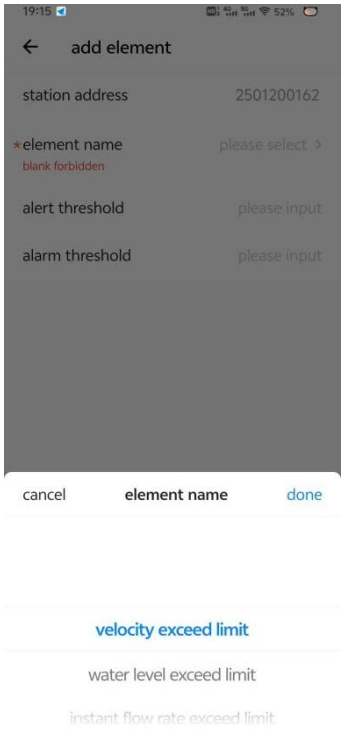


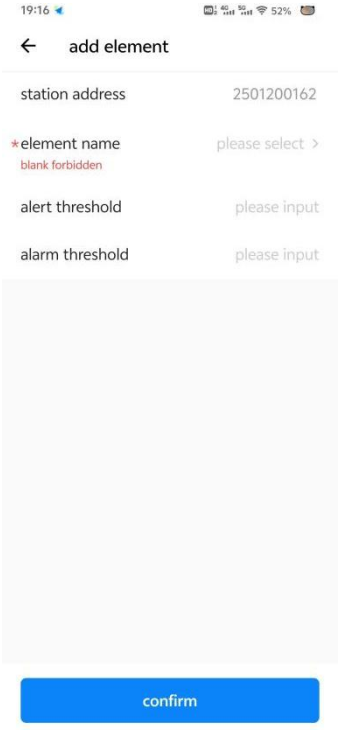
C. Setting alarm elements and viewing alarm information

Click the "+" icon

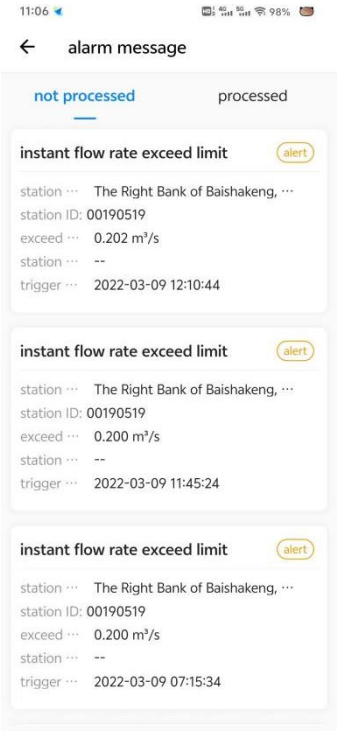
on the alarm elements interface to enter the settings page, where you can configure alarm elements and alarm thresholds. Click the upper right corner  the main interface to view alarm information.

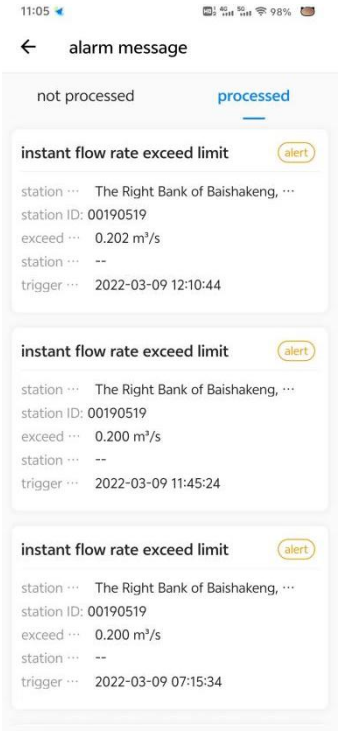






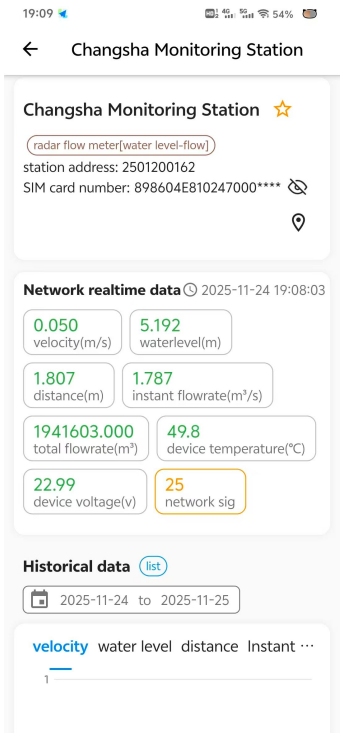


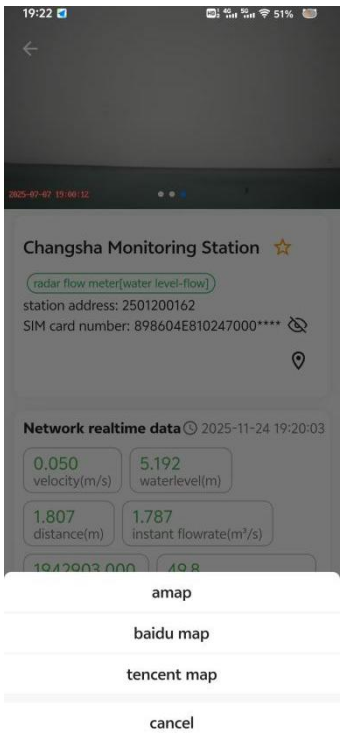


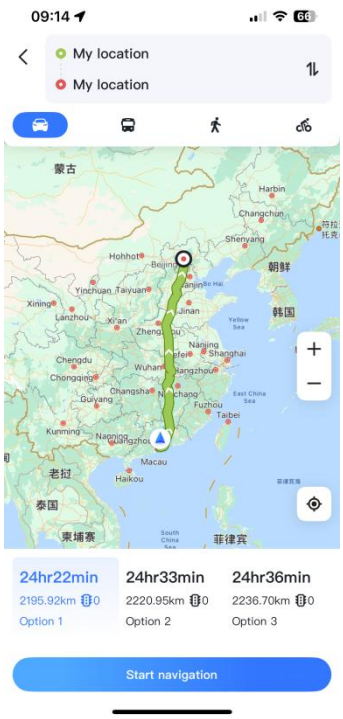


D. Equipment navigation

On the device details page, clicking the location marker and selecting the desired map will generate a navigation path from your current location to the device's location. This helps maintenance personnel locate the device's installation point during on-site maintenance.





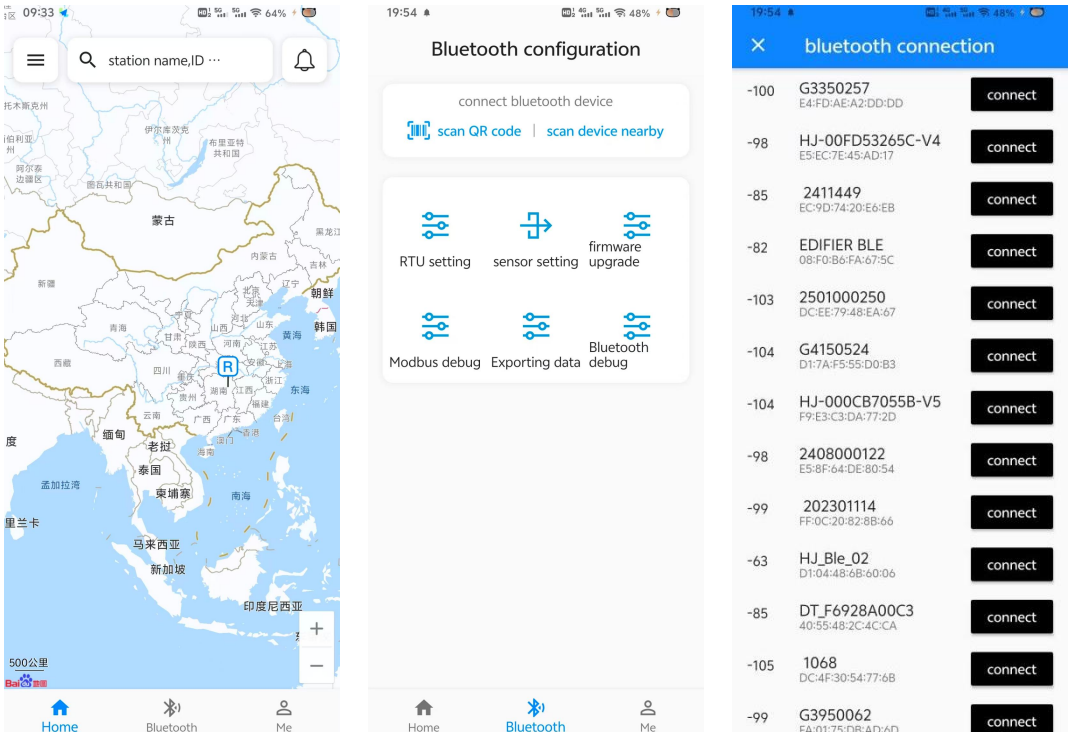


3 Equipment Commissioning

The debugging functions of the mobile client can be used to query and set the current parameters of the device's sensors and RTUs, perform firmware upgrades, and debug Modbus. This greatly simplifies on-site installation and debugging, eliminating the need for a computer and avoiding the inconvenience of carrying and wiring computers outdoors, thus providing significant convenience for on-site installation and debugging personnel.

3.1 Bluetooth connected devices

After turning on your phone's Bluetooth, tap the Bluetooth icon on the home screen to enter the Bluetooth settings page, select "Scan for nearby devices," choose the corresponding device from the device list, and tap "Connect."

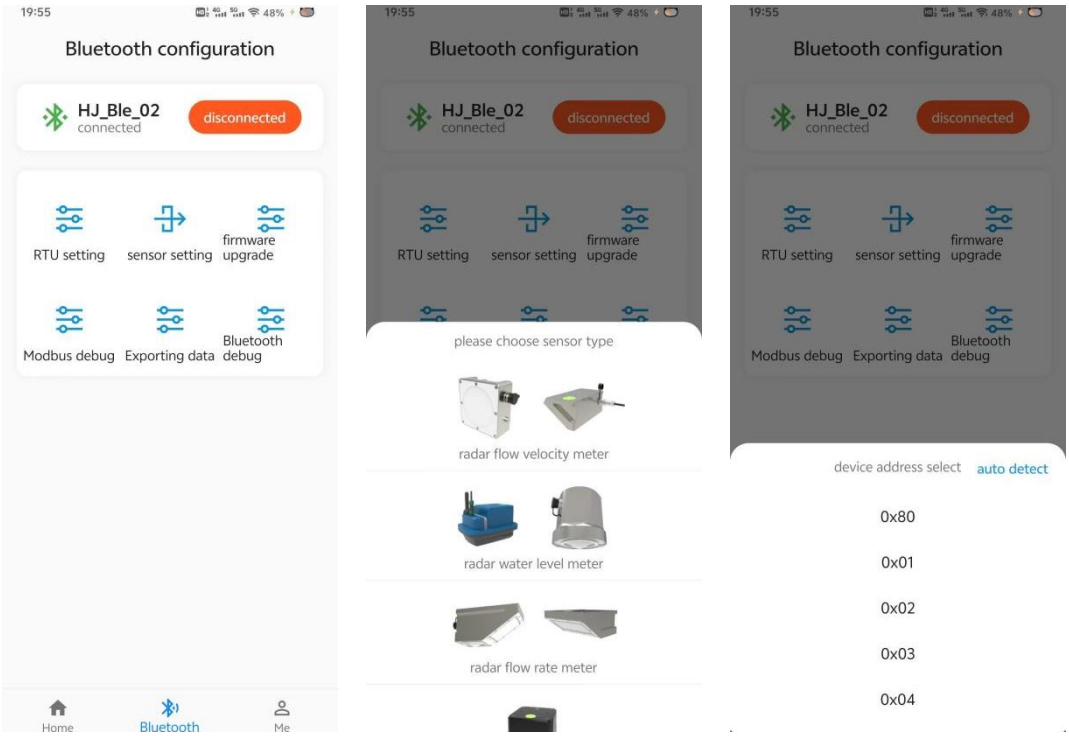


Once the Bluetooth connection is successful, the current device's Bluetooth name and connection status will be displayed.

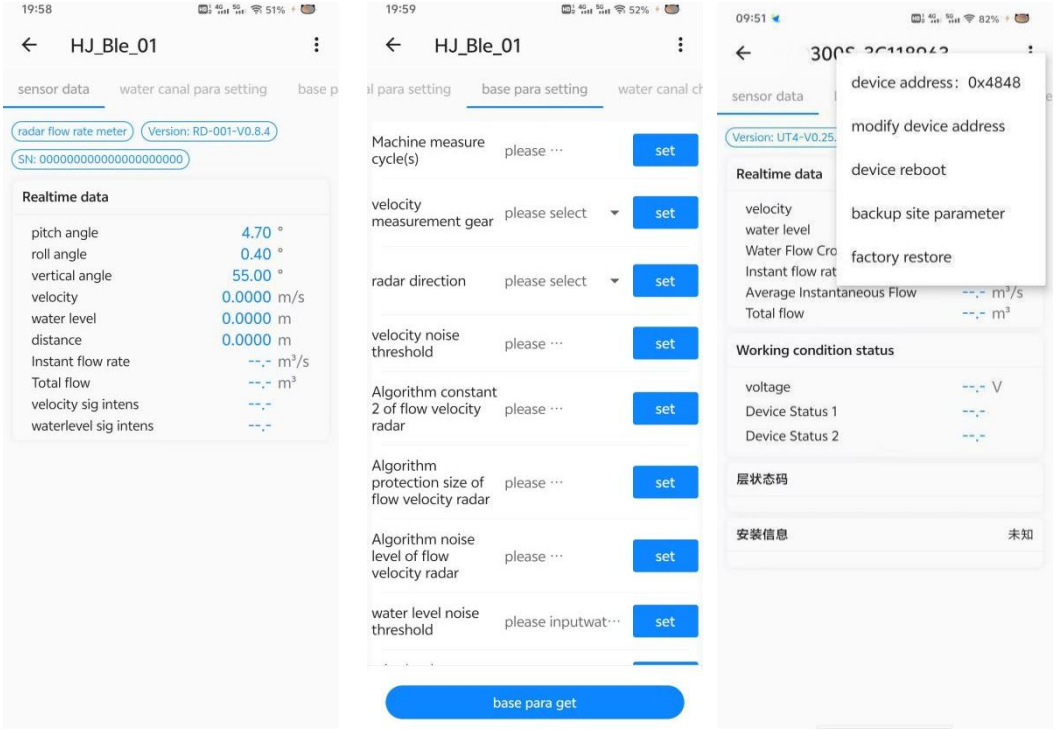


3.1.1 Sensor settings

Select the sensor configuration options, choose the sensor type, and select the device address. If you are unsure of the current device address, you can select "Check Address".

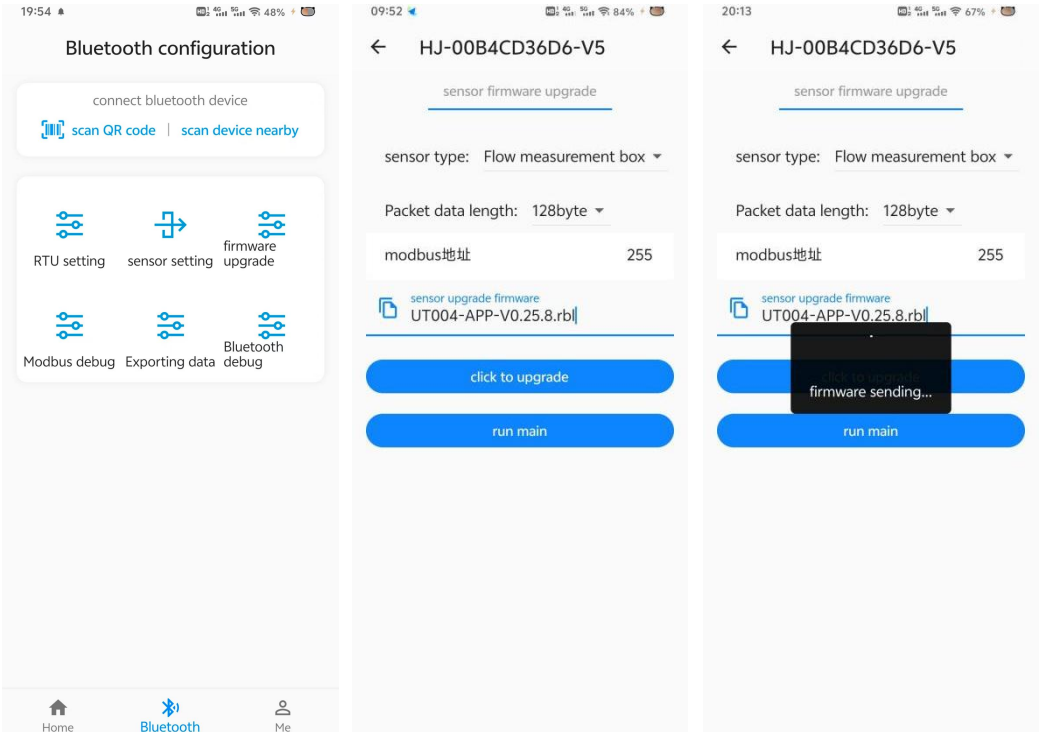


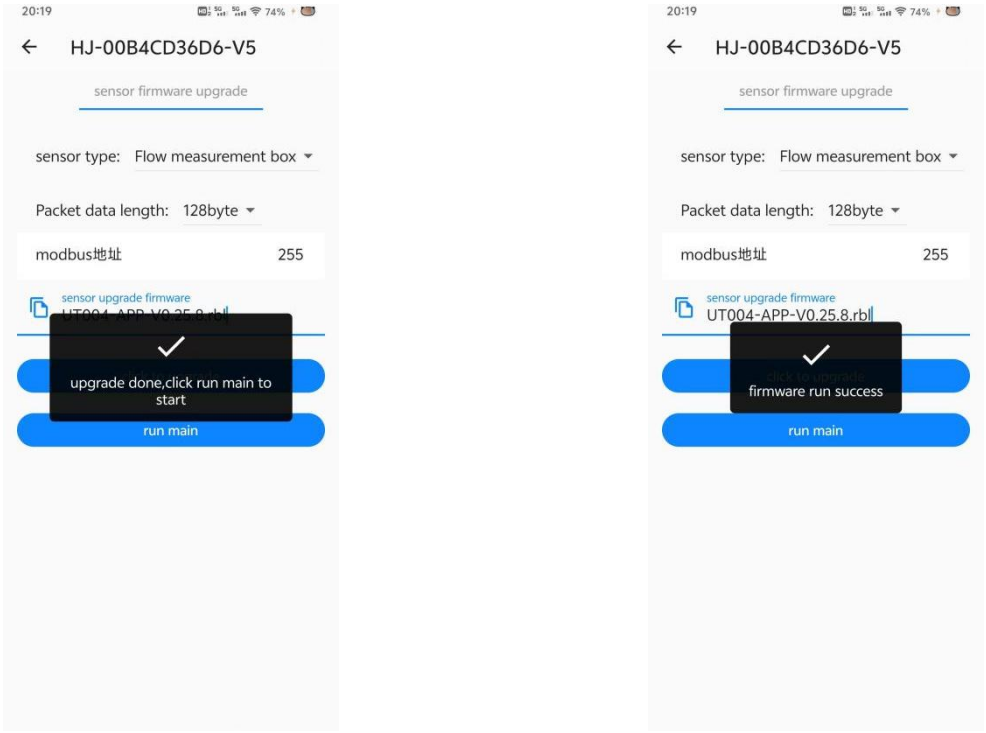
Accessing the sensor data page allows you to view current measurement data and parameters. The basic parameter settings page displays the current settings and allows you to adjust parameters. Clicking the button in the upper right corner ⋮ allows you to modify the device address and restore the sensor to factory settings.



3.1.2 Sensor firmware upgrade

On the Bluetooth configuration page, select Firmware Upgrade to enter the sensor firmware upgrade page. Select the sensor model, enter the upgrade firmware name, and click One-Click Upgrade to start sending the upgrade firmware. After the firmware is sent, a message will appear: Upgrade Complete. Click Run Main Program. After clicking Run Main Program, a message will appear: Program Run Successfully. Sensor program upgrade complete.





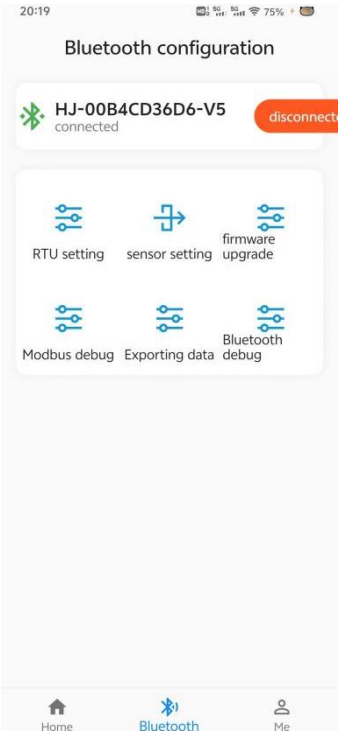
Upgrade Notes :

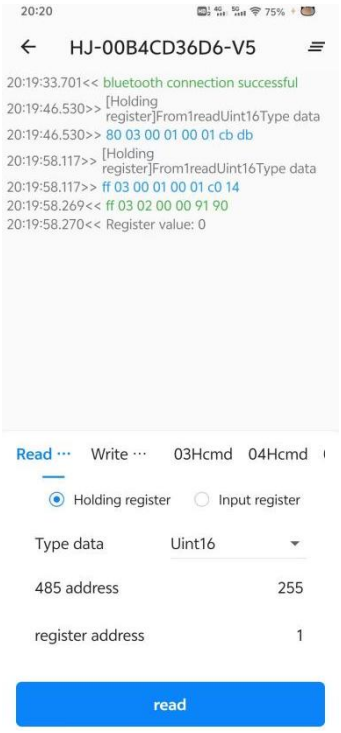
- After the sensor upgrade is complete, you need to restore the sensor to factory settings. After restoring factory settings, you need to reconfigure the sensor parameters.
- For devices that require sensor firmware upgrades, please confirm the firmware version with after-sales personnel before upgrading to avoid sensor malfunction due to incorrect firmware upgrades.

3.1.3 Modbus debugging

You can select the corresponding debugging page 

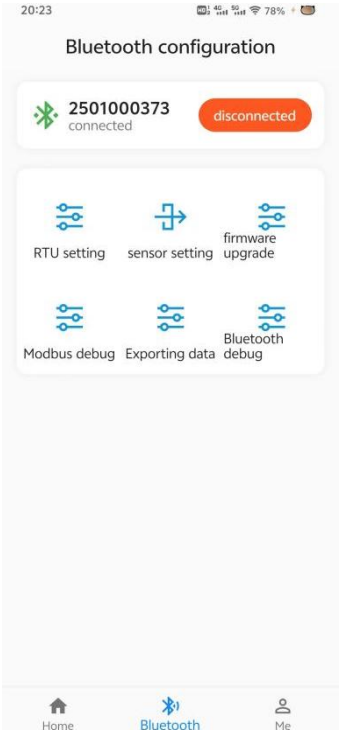
on the Bluetooth configuration page to perform sensor-related debugging.

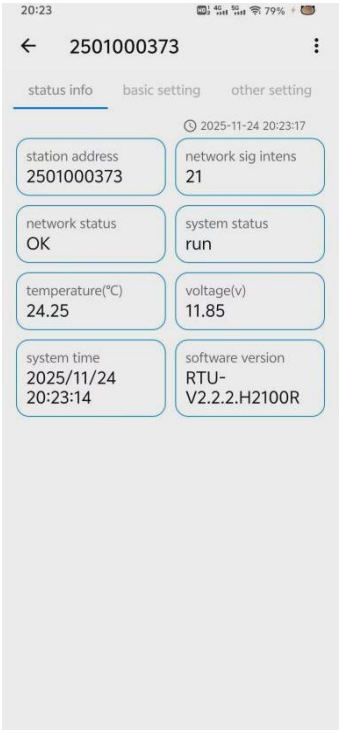


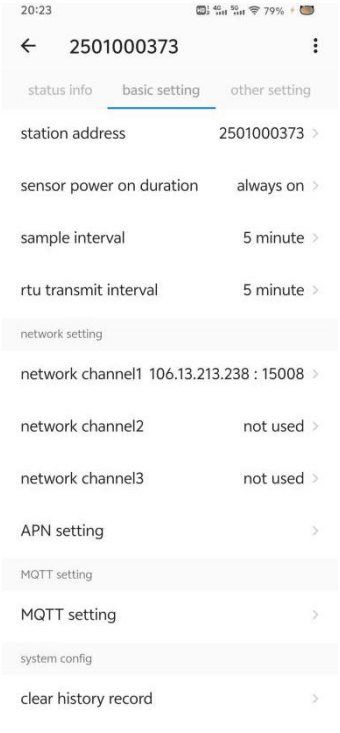


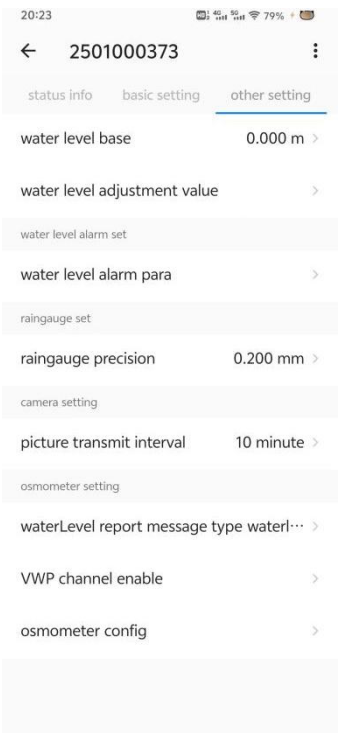
1.3.1.4 RTU configuration

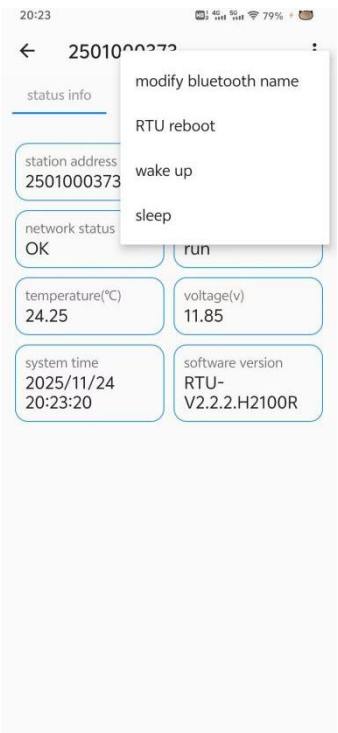
On the Bluetooth configuration page, select RTU configuration. Once in the RTU configuration page, you can view basic status information, set basic RTU parameters, and perform other related settings. Clicking the button in the upper right corner allows you to restart, wake up, or put the RTU to sleep.







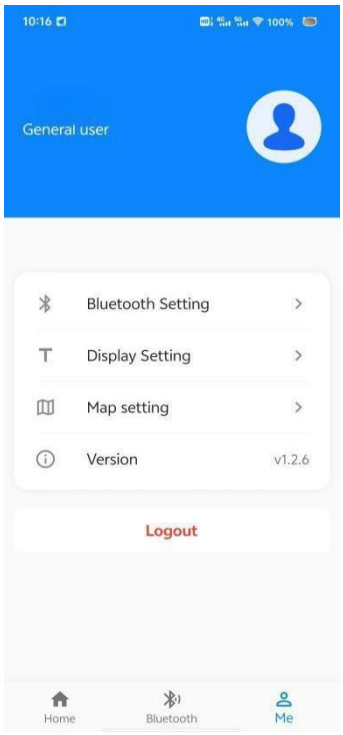


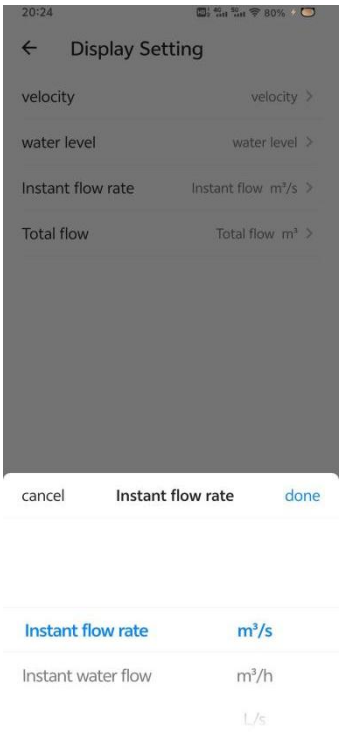


4 Display settings

Me

After logging in , you can enter the login information page to log out, check the current software version, and click on display settings to set data units and other operations.


10:16
100%
General user
Bluetooth Setting
Display Setting
Map setting
Version
v1.2.6
Logout
Home
Bluetooth
Me


20:24
80%
Display Setting
velocity
velocity
water level
water level
Instant flow rate
Instant flow m³/s
Total flow
Total flow m³
cancel
Instant flow rate
done
Instant flow rate
m³/s
Instant water flow
m³/h
L/s