



RS-WS-WIFI-C4

Temperature and humidity

transmitter

User manual

Document version V1.0

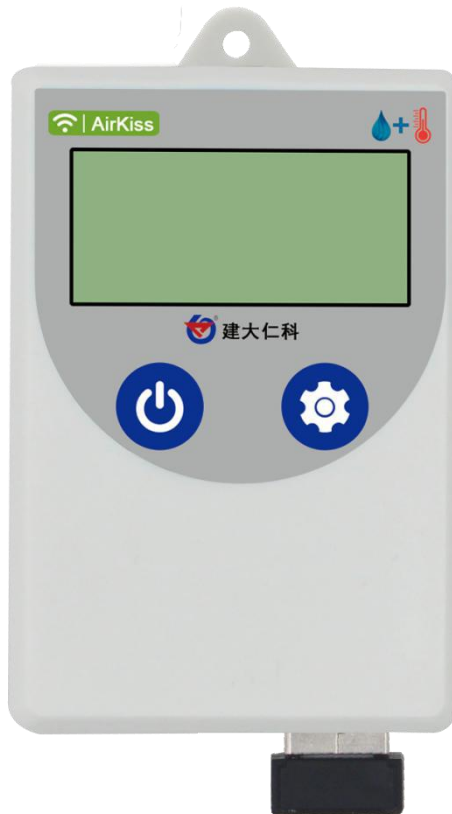




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一. Product introduction

1.1 Description

RS-WS-WIFI-C4 series is a temperature and humidity transmitter using WIFI wireless data transmission. Temperature and humidity data can be collected and uploaded to the free WeChat device platform provided by our company through WIFI network. The product WIFI adopts AirKiss technology, which can realize one-button distribution network and easy networking. The product adopts imported high-precision sensor with high sampling precision and small annual drift.

When the transmitter is connected to the WIFI network in the venue, the real-time data can be uploaded to the WeChat device platform by means of the on-site network. When the network is disconnected, the device will automatically cache the data, and the network resumes automatically retransmitting the data. Use WeChat to scan the QR code on the transmitter to instantly manage the device and view the data, which is simple and convenient.

The transmitter has a LCD screen to display temperature and humidity data, device power and current network connection status in real time. The transmitter has a built-in battery, which can be used continuously for more than 14 days on a single charge. It can also be powered by a mobile phone charger for a long time. The transmitter has a built-in buzzer for over-limit alarms.

The probe built-in type can be used to measure the temperature and humidity of a normal environment. The probe external type can be used to measure the temperature and humidity of high temperature or low temperature and high humidity. The products are mainly used in greenhouses, laboratories, breeding, greenhouses, offices, warehouses and other places where temperature and humidity are required for online monitoring.

1.2 Features

- Use high quality imported temperature and humidity sensor for temperature and humidity data measurement.
- Use WIFI wireless transmission to easily upload data online via the live network.
- Free WeChat platform management device to view data in real time.
- Communication disconnects the device to automatically cache data, and the communication resumes automatically uploading data, and the cached data can reach 1000.
- The device uses a low-power LCD screen to view the temperature and humidity in real time.
- Built-in buzzer for ultra-high temperature alarm.
- Built-in high-capacity lithium battery with built-in battery or external power supply
- Temperature and humidity overrun WeChat real-time push.
- AirKiss WIFI networking technology makes it easy to connect with one button.



1.3 technical parameter

power supply	DC5V powered or built-in battery		
Communication Interface	Standard WIFI wireless (2.4GHZ)		
WIFI communication parameters	Support for 802.11b/g/n wireless standards		
WIFI encryption performance	Support for WPA/WPA2 security mode		
Measuring range	temperature	Probe built-in type	-20~+60℃
		Probe external type	-40~+80℃
	humidity		0~100%RH
measurement accuracy	temperature	±0.5℃ (25℃)	
	humidity	±3%RH(5~95%RH,25℃)	
length of work	Once full charge can work continuously for 14 days External power supply can work continuously for a long time		
Charging time	6 hours full charge		

1.4 product model

RS-				Company code
	WS-			Temperature humidity sensor
		WIFI-	WIFI mode upload data	
			C4-	COS04 sensor
				0 Built-in probe
				5 External probe

二. Installation instructions

2.1 Equipment inspection before installation

- 1 temperature and humidity recorder equipment



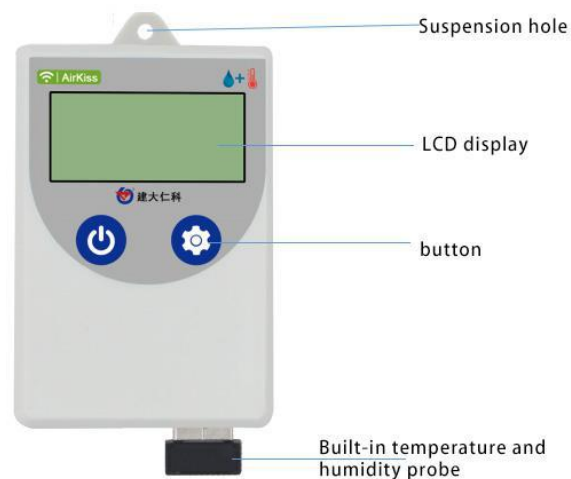
- Certificate, warranty card, after-sales service card, etc.
- Accessories hanging rope

2.2 device installation

The equipment can be hung in any place where it can be hung, and the suspension equipment is suspended using a lanyard.



三. Panel and configuration instructions





number	Description
1	Wheel display humidity and system time
2	The device is in the setup state
3	Remaining battery display
4	WIFI connection identifier (broken network is broken, connected to the network to display normally)
5	Wheel display temperature and number of stored
6	Temperature or humidity alarm prompt
7	Automatically enable offline caching when the device is disconnected

四.Free WeChat platform application

4.1 Check before accessing WeChat platform

- Confirm that the device is QR code and complete and clear.
- Test whether the environment in which the device is to be installed has a wireless network and the network signal is strong.
- The wireless network that is connected to the mobile phone and the device that is about to connect to the network use the same network.
- The device is fully charged.
- Know the password of WIFI.

4.2 WeChat platform binding and real-time data viewing

- 1: Pay attention to the Shandong PeopleSoft equipment platform (you can directly scan the QR code on the device).
- 2: Click [Quick Action] → [Add Device] in the public number menu.



1. Click [Identify Device], scan the QR code, and click on the binding device.



2.

1. WeChat platform enters WIFI distribution network stage, click [OK].
2. When the device is powered on (short press "left button" to power on under power off state), long press "right button". The WiFi signal indicator flashes in the upper right corner of the display, and the device is in the distribution network.
3. Click Next, enter the password of the WIFI connected to the mobile phone, click Connect, the WeChat page shows that the distribution network is successful, the device interface flashes "ON", and then returns to the detection temperature and humidity interface.



3. Go back to the main page of WeChat platform and click [Device Management] to enter the device management page. You can view real-time data from your device.

4.3. WeChat platform parameter setting

4.3.1 Platform host parameter configuration

Click the host parameter configuration in the drop-down menu, click Edit, you can set the platform parameters, including the device name, alarm record, etc., open and close, offline judgment interval, SMS alarm interval, alarm contact, etc. Open node 1 and click Save. (Specific settings refer to the user guide in the public number)



4.3.2 Platform upper and lower limit settings



Click the drop-down menu of Node 1 and click [Parameter Settings]. Enter the parameter setting page, the switch of the alarm mode can be set on the page. Select "Analog 1 Enable Analog 2 Enable" for the data type. Set the analog range according to the range of the selected probe, (take the probe external type as an example) and set the upper and lower limits of the analog (it is recommended to be the same as the upper and lower limits of the device to ensure the synchronization of the platform and device alarms). Refer to the User Guide settings in the WeChat platform for specific settings.




五. System menu and settings

5.1 Key Description

	Features	Description	Button operation mode
Left button	Shift key	● Exit operation when parameter setting	dog
	Page up	● Front page flip button when viewing menu	dog
	return key	● Return to the main menu when the interface is set or viewed	dog
	Shutdown button	● Device shutdown	Long press
	Power button	● Device boot	Long press
Right click	Page backward	● Page view button	dog
	Increase key	● Data increase button when parameter is modified	dog
	Enter	● Confirm the button after modifying the parameters	Long press

The device is in the state of detecting the temperature and humidity main page, short press the left button , Display the minimum temperature and humidity of the device after booting, continue to press the left button , Shows the maximum temperature and humidity after the device is turned on.

When the device is in the state of detecting the temperature and humidity main page, press and hold the right button to enter the distribution network. 





The device is in the off state, you can press and hold the left button to enter the temperature and humidity



display interface.

When the alarm is enabled, the alarm in the setting interface is enabled, the alarm is turned off, and the alarm sound is cleared. (Note: Turn off the alarm enable only to turn off the buzzer, can not turn off the alarm, the alarm still exists when the temperature and humidity exceed the limit)

5.2 Function display item description

Short press under the main interface , Enter the password, the default password 000, Then long press , Can enter the menu setting interface. Short press when entering your password  Can increase or decrease, short press  Shift.

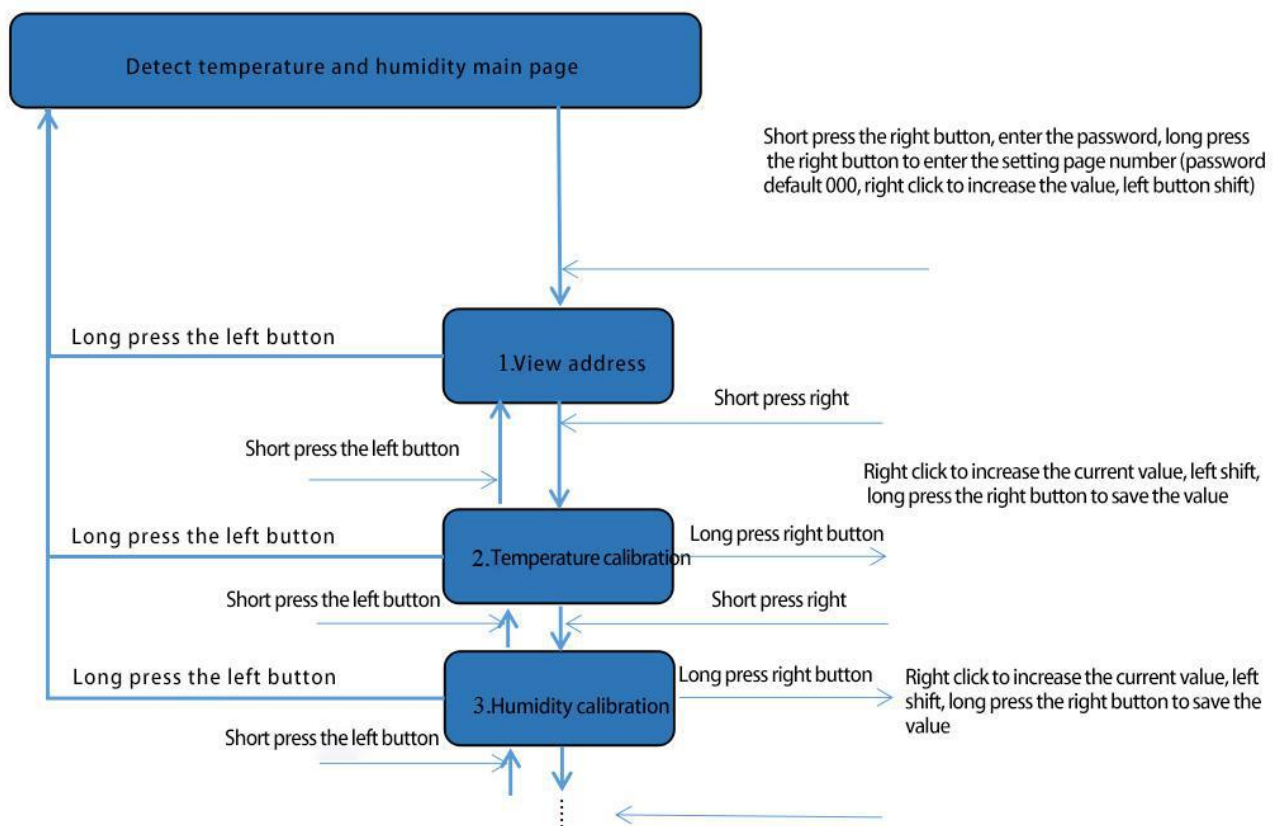
Menu number	Features	Scope and description	default
1.	View address	Unchangeable	Unchangeable
2.	Set the temperature correction value	-99.9~99.9	0
3.	Set the humidity calibration value	-99.9~99.9	0
4.	Set the upper temperature limit	-99~999	100
5.	Set the lower temperature limit	-99~999	0
6.	Set the upper humidity limit	0~999	100
7.	Set the lower humidity limit	0~999	0
8.	Set clear history data	0 means no clear, 1 means clear	0
9.	Set time	00:00~23:59, Can only set hours and minutes	Hours and minutes of system real time
A.	set password	000~999	000
B.	Set buzzer alarm enable	0 means no, 1 means enable.	1, Alarm enable
C.	Set offline recording interval	0~9999, 0 means no record, unit minutes	15min

5.3 Set parameter operation instructions

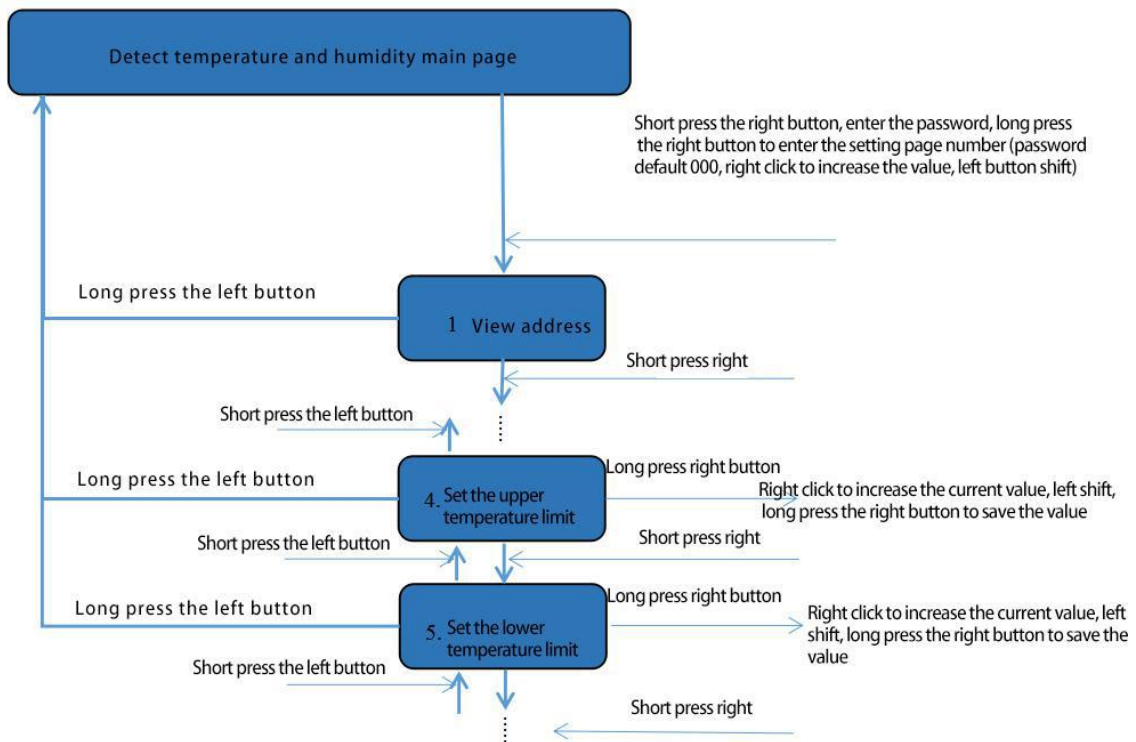
: Left button。
 : Right button

In the temperature and humidity interface, short press "Right button" to enter the input password interface, short press "Right button" to add the current value, press "Left button" to shift, (password default 000) and then press "Right button" to enter the device configuration. interface. Enter the configuration interface, short press "right button" to page down, short press "left button" to page up, long press "right button" on different pages to enter this page mode: short press "right button" to increase the value, short press "left" Shift "key", then long press "right click" to save the data. (Note: After a button operation of 20S in a setting interface, the device automatically enters the temperature and humidity display interface).

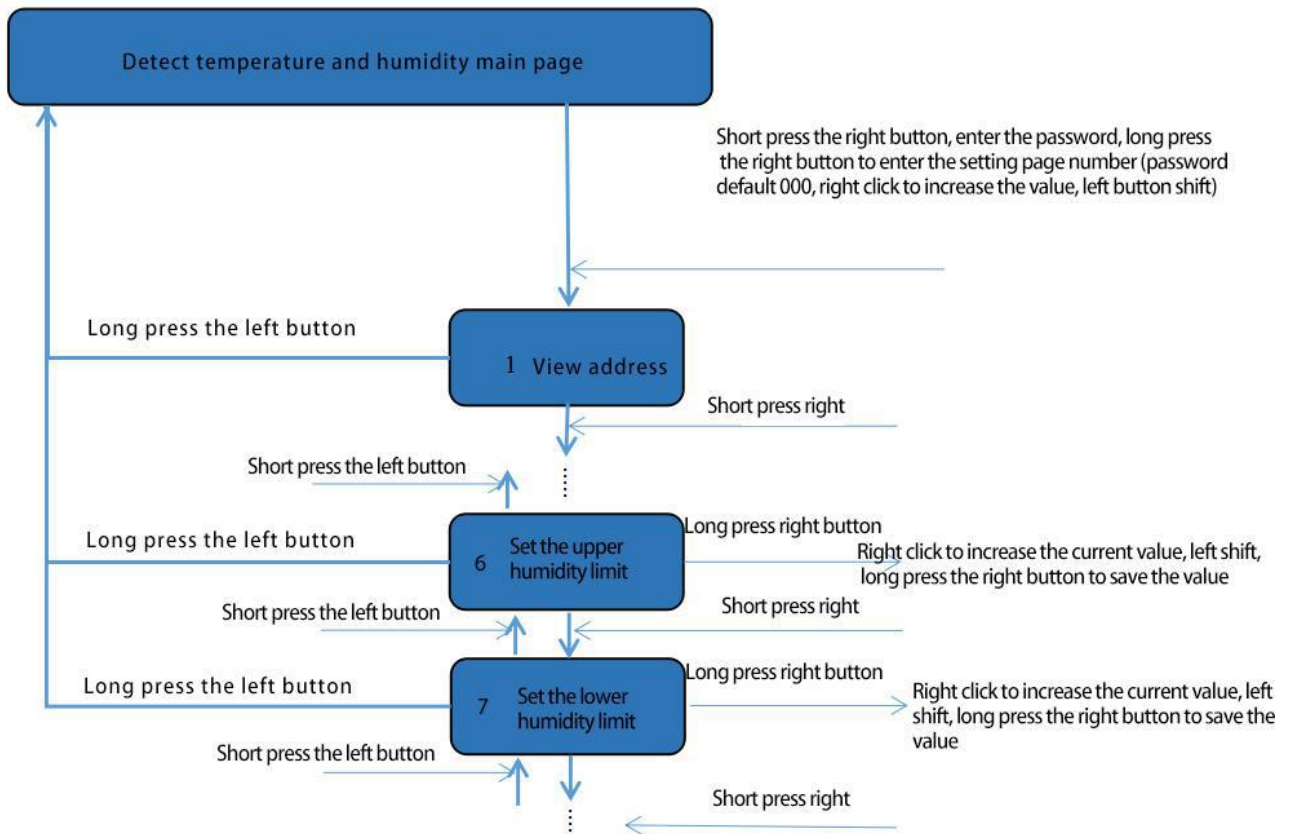
5.3.1 Temperature and humidity calibration



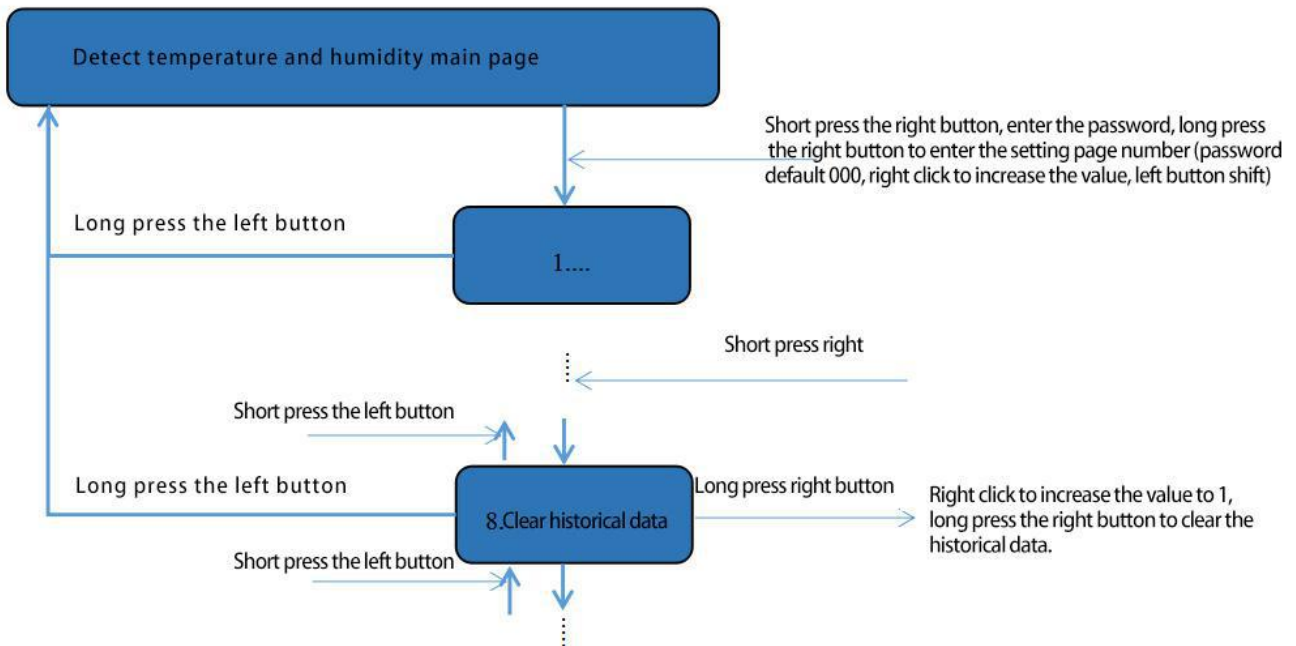
5.3.2 Set the upper and lower limits of temperature



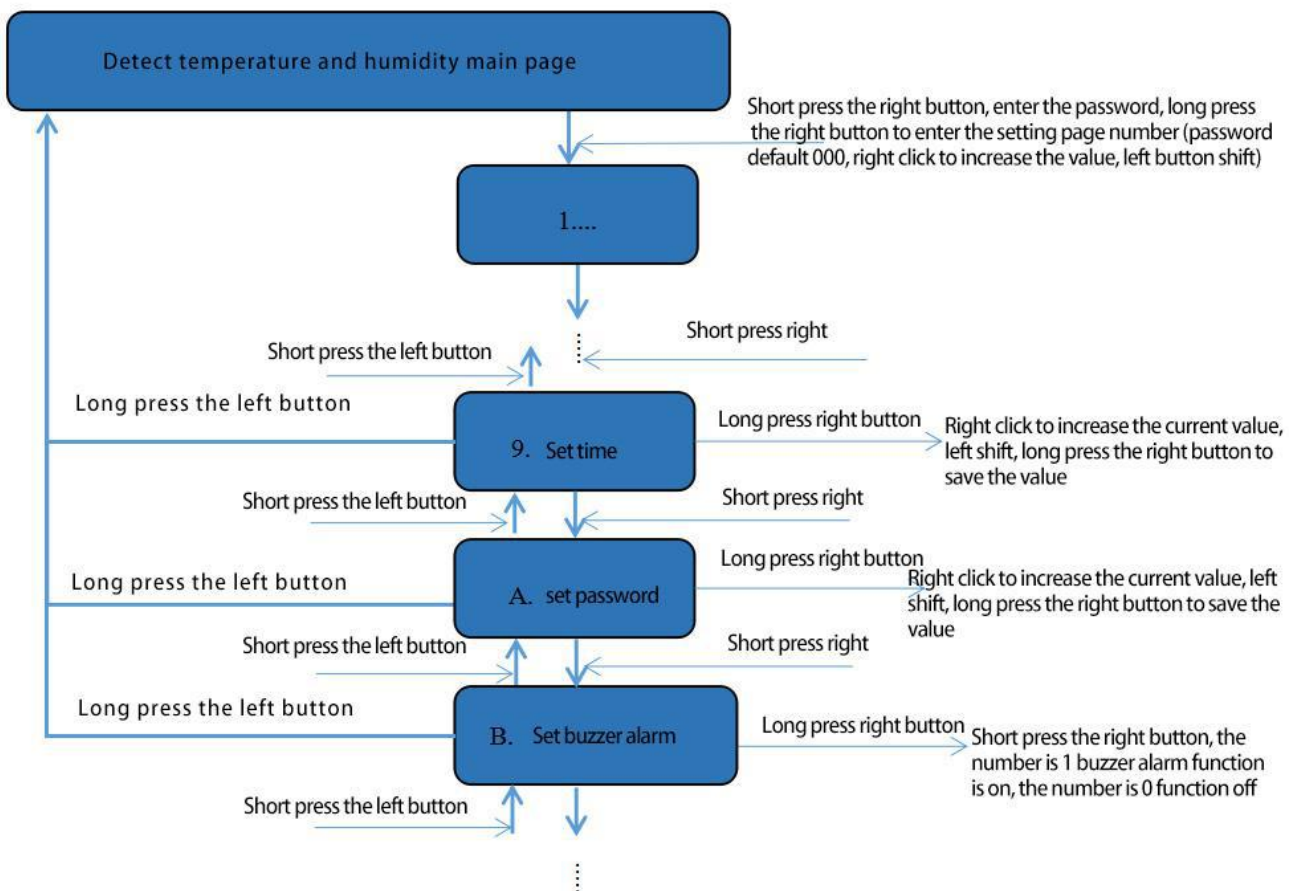
5.3.3 Set the upper and lower limits of humidity



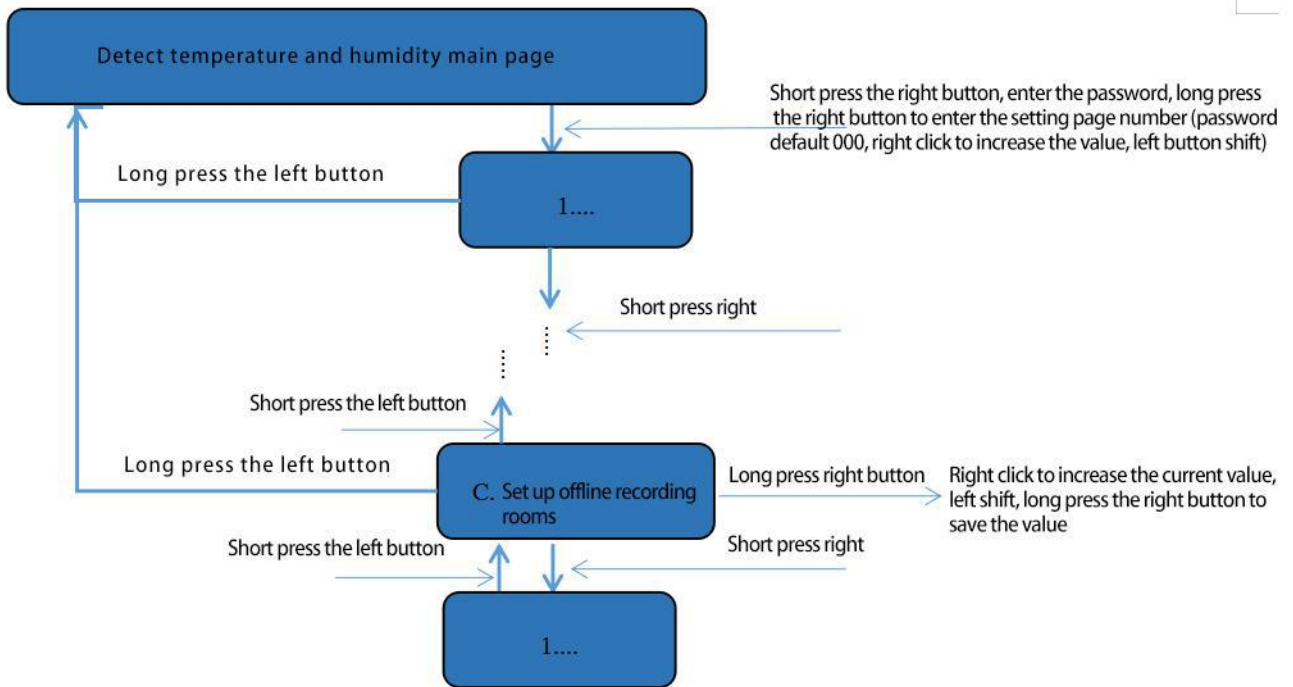
5.3.4 Clear historical data



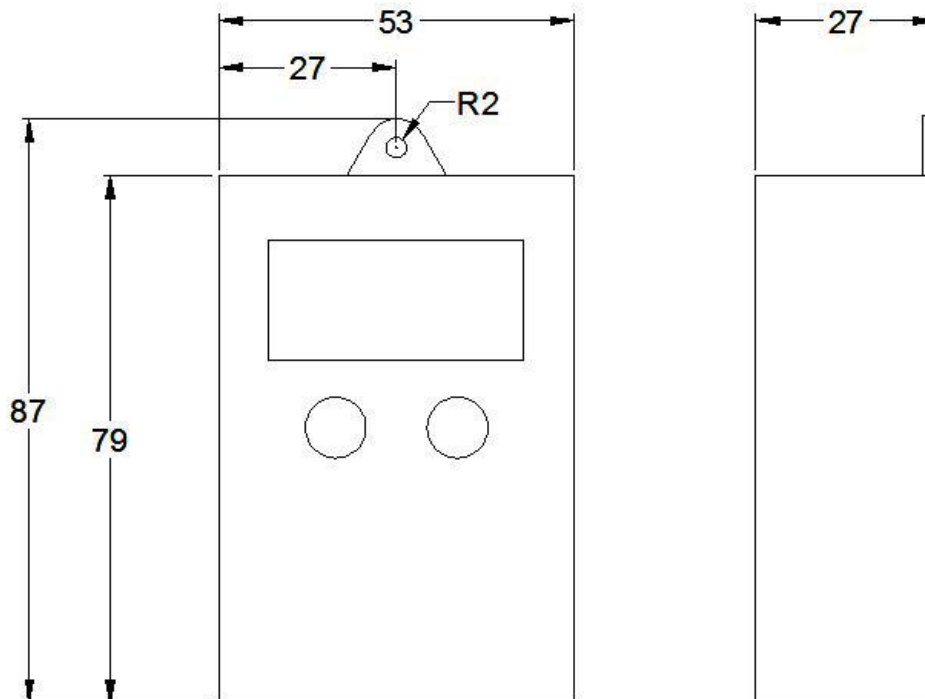
5.3.5 Set time, password, buzzer



5.3.6 Set offline time recording interval



六. Equipment size



七.Possible reasons for failure of distribution network

Device distribution failure may have the following reasons:

- The network signal is weak. Please change to a network environment or change to a network connection.
- The mobile phone is not using a WIFI network.
- The WiFi password is entered incorrectly.
- The device does not enter the configuration state.
- The device is out of power. Please try the distribution network again after the device is fully charged.
- The device indicates that the distribution network is successful, but the devices in the device list still display offline status: there may be stored data in the device. Please wait patiently for a few minutes while uploading (the more the device stores data, the longer the upload time)

八.Access monitoring platform (Free platform)





九.Contact information

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