ASAIR®

Temperature & Humidity Display
AS106 User Manual

ASAIR®
AS106

Product overview

The product is a new type of temperature and humidity display, using the company exclusive research and development of high-quality capacitive digital sensors, sensor with high measurement precision, strong anti-jamming capability, as well as the characteristics of strong stability, guarantee the products of excellent performance measurement. This product can meet all Application scenarios.

Products can be widely used in industrial workshop, telecom base station, communication room, HAVC hvac, intelligent buildings, offices, museums, archives, etc., are all kinds of application environment temperature and humidity measurement shows that the ideal solution.

Sensor Performance

2.1 Relative Humidity (%RH)

Parameter	Condition	Min	Typ.	Max	Units
Resolution			0.1		%RH
Measuring range		1	±3	99.9	%RH
Drift	Typical		0.1		%RH/yr
Sampling period			2.5		s

2.2 Temperature(℃)

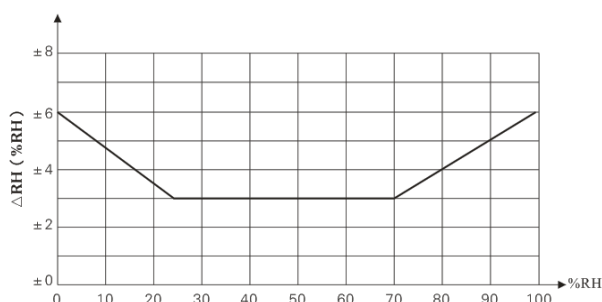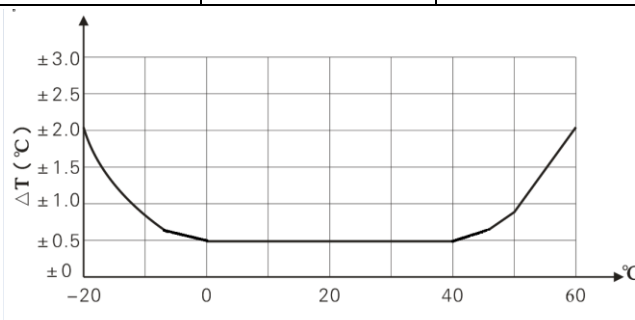| Parameter	Condition	Min	Typ.	Max	Units
Resolution			0.1		℃
operating range(inner)		-40	±0.5	60	℃
Drift	Typical		0.1		℃/yr
Sampling period			2.5		s

Figure 1 Relative Humidity error

Figure 2 Relative Temperature error

The measured value of the product may be subject to the following factors:

1)．The temperature error

◎Placed in a test environment in settling time is too short.

◎Near sources of heat, cold source, or directly at the sun.

2)．The humidity error

◎Placed in a test environment in settling time is too short.

◎Prohibited for a long time in the steam, spray, curtain or condensing environments.

3)．Pollution

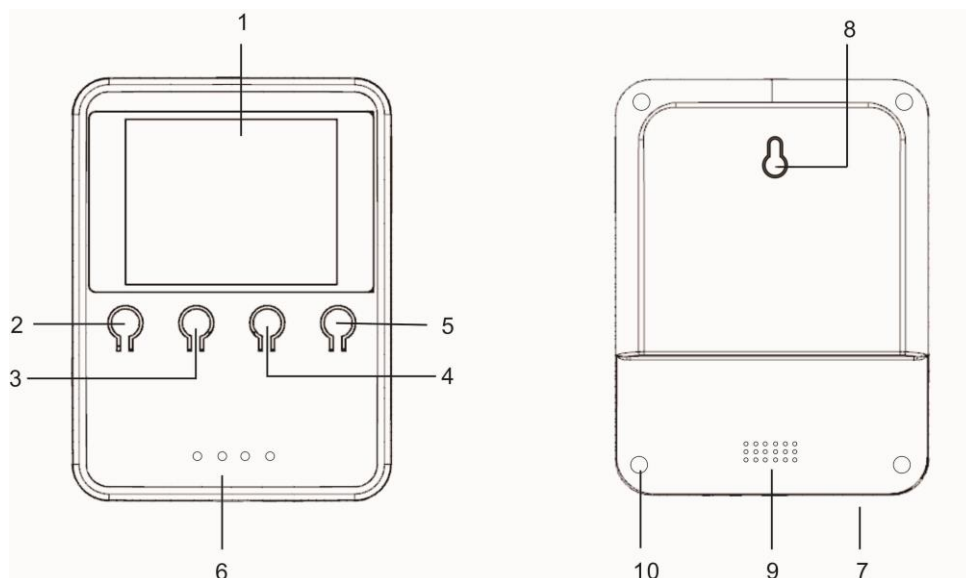◎In dust or other environmental pollution, the product must be cleaned regularly.

2.3 Other specifications

1) Current consumption: ≤60mA

2) Supply voltage: USB 5V

3) Size：120mm(L)×90mm(W)×18mm(H)

4) weight：115g

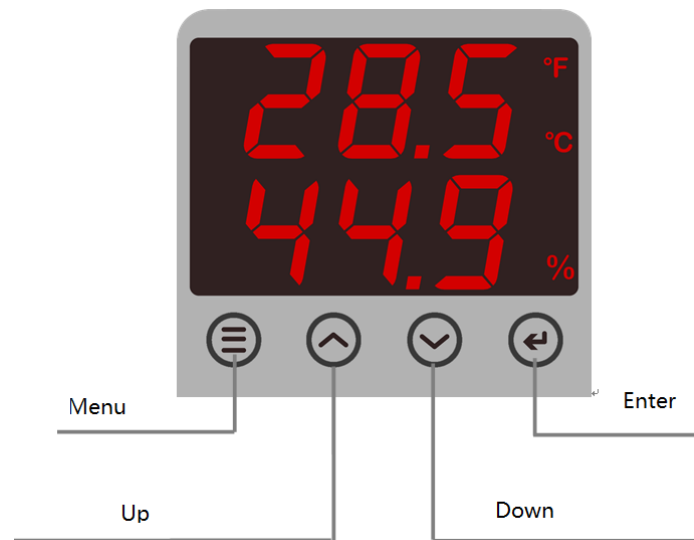|	
1、display area	7、USB DC5V input
2、Menu/Return	8、screw
3、Up/+key	9、Ventilation
4 Down/-key	10、screw
5、Enter	
6、Ventilation	

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Metope installation method

1. Open the outer packing box, fixed screw removed from a plastic bag.
2. Use percussion drill nail drill a hole in the wall, screw and plastic nail unscrewed the plastic nail nailed to the wall with hammer has drilled screw hole, and then put the screw into the nail with a screwdriver.
3. The temperature and humidity display, out of the outer packing carton on a screw.

Menu and Settings

P3 Panel shows that

4.1、Boot interface

After the electricity, the system will automatically start, after the success of the boot, display the default into the temperature and humidity display status, the value above show temperature, humidity
below.

图 4 开机显示界面

4.2、 Menu setting

The transmitter supports high and low temperature and humidity alarm function, can set the high and low temperature humidity alarm value alarm. Press "menu" into the menu Settings, the default display "1. CH", if within 30 seconds without any interface will be restored to the default display temperature and humidity of the interface. Press ", choose "can enter the high and low temperature, high wet alarm Settings, temperature and humidity alarm switch Settings, unit selection and temperature Settings interface, specific operation reference is as follows:

4.2.1、High temperature alarm Settings

Press "menu" into the menu Settings, default "high temperature alarm Settings menu, the interface display" 1. CH ", press "confirm button", below the display subtitles start flashing, can now by pressing the "up and down key choice" needed to set high temperature alarm value, the default value is 60 ℃. The last press "confirm button" save Settings, click "menu" to return to the default display interface.

4.2.1、Low temperature alarm Settings

Press "menu" into the menu Settings, through "up and down key choice" choose "low temperature alarm Settings menu, the interface is shown as" 2. CL ", press "confirm button", again below the display subtitles start flashing, through can be set to "on, select key under" low temperature alarm value, the default value is – 40 ℃. The last press "confirm button" save Settings, click "menu" to return to the default display interface.

4.2.1、High humidity alarm Settings

Press "menu" into the menu Settings, through "up and down key choice" choose "humidity alarm Settings menu, the interface is shown as" 3. HH ", press "confirm button", again below the display subtitles start flashing, through the "up and down key choice" can be set high humidity alarm value, the default value is 99.9%. The last press "confirm button" save Settings, click "menu" to return to the default display interface.

4.2.1、Low humidity alarm Settings

Press "menu" into the menu Settings, through "up and down key choice" choose "low humidity alarm Settings menu, the interface is shown as" 4. "HL, press" confirm button ", again below the display subtitles start flashing, through can be set to "on, select key under" low humidity alarm value, the default value is 1.0%. The last press "confirm button" save Settings, click "menu" to return to the default display interface.

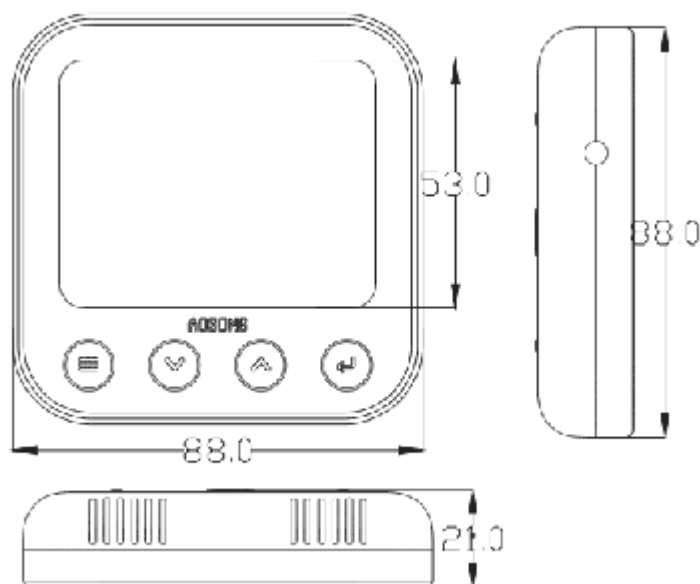### 4.2.1、Temperature and humidity alarm switch Settings

Press "menu" into the menu Settings, by "up and down key choice" choice "temperature and humidity alarm switch Settings menu, the interface is shown as" 5. Ar ", then press "confirm button", below the display subtitles start flashing, through the "up and down key choice" can set the alarm switch, the default "OFF". The last press "confirm button" save Settings, click "menu" to return to the default display interface.
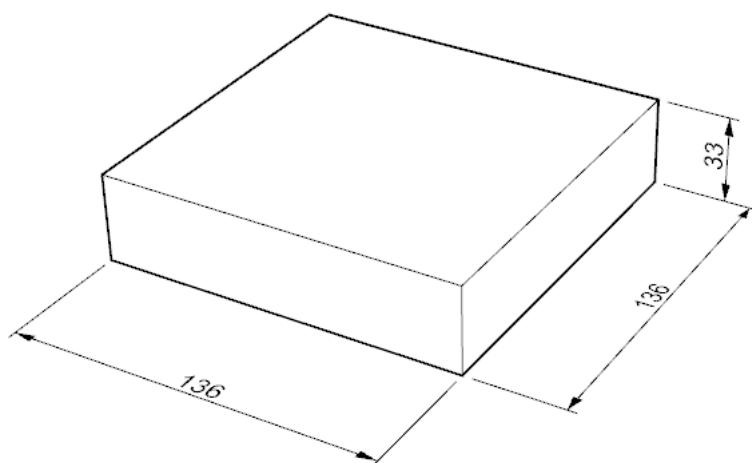
4.2.1、Temperature units set up

Press "menu" into the menu Settings, through "up and down key choice" choose "set temperature and humidity unit" menu, the interface is shown as "6. CF", press "confirm button", again below the display subtitles start flashing, through the "up and down key choice" can set the system temperature unit, the default value is "℃. The last press "confirm button" save Settings, click "menu" to return to the default display interface.
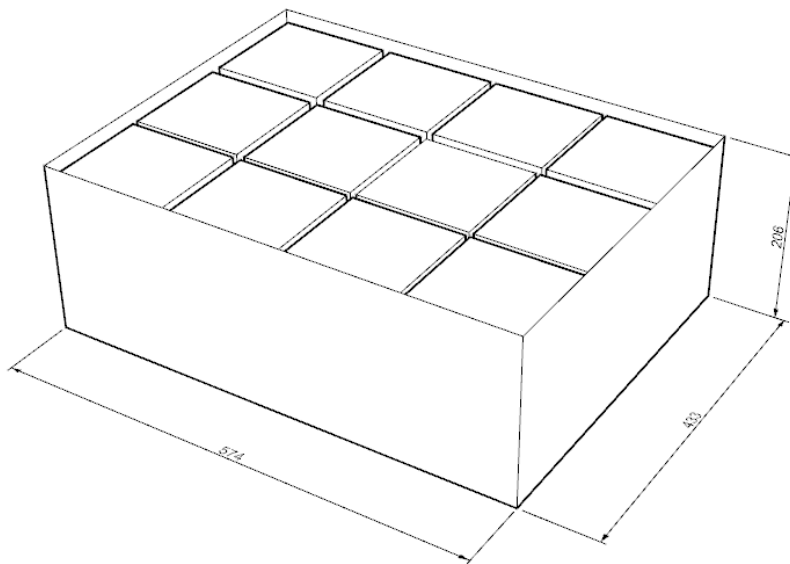
5.Packing specification

1. Each standard sensor number is 60.
2. Each Carton tray packaging 1 sensors.

Product size：88mm*83mm*21mm

Carton Size:136mm*136mm*33mm

Packing Carton size:574mm * 433mm *206 mm

License Agreement

1) Without the written permission of the company, it shall not copy or disseminate the content of this specification in any form, nor shall it be disclosed to a third party.

2) The company and the third party have the ownership of the software, and the user can only use it after signing the contract or obtaining the software license.

3) The contents of this instruction manual are subject to change without prior notice.

Warning and Personal Injury

Do not apply this product to safety protection devices or emergency shutdown devices, and any other applications that may cause personal injury due to the malfunction of the product, unless otherwise authorized. Please refer to the product data sheet and Application guide before installation, processing, use, or maintenance of the product. Failure to comply with the recommendations may result in death and serious bodily harm. The company will not be

liable for all damages resulting in personal injury or death, and avoid the company managers and employees, agents, distributors and other subsidiary may have any claim, including all the costs and compensation costs, legal fees etc.

Quality Assurance

The company provides quality assurance for 12 months for the original purchaser of the products (calculated from the date of shipment), in accordance with the technical specifications of the data book of the product published by the company. If the product is proved to have its own quality problems during the warranty period, the company will provide free maintenance or replacement. The user must meet the following conditions:

1) The purchaser must notify the company of the defect in writing within 14 days of discovery.
2) The purchaser shall pay the shipping charges for product mailed back to company.
3) The product should be within the warranty period.

The company is solely responsible for products that are defective in situations where the technical conditions of the product are met. The company applies its products to those special applications without any warranties or statements, as well as any commitment to the reliability of the products applied to products or projects.