JAVS18-2011SG2
IOT Real-time Body Temperature Measurement Wristband Tag

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1. Product Overviews

Temperature sensors

JAVS18-2011SG2 IOT real-time temperature monitoring wristband tag is a real-time temperature monitoring wristband developed for the epidemic of infectious viruses. Features of the product: high measurement accuracy (0.1 ℃), multiple functions, strong real-time, big data collection. Use to control the infection of virus; analyze the development trend of virus; track the contact personnel.

The design and application of this product is mainly for schools, factories, mines, enterprises, troops, government agencies, hospitals, etc. In addition to the function of temperature measurement, this product also has the functions of access control, attendance, positioning, etc.

The biggest advantage of JAVS18-2011SG2 is that it can detect the body temperature of the personnel in real time, collect the measured data to the cloud platform, and analyze the data through the cloud platform, so as to predict the development trend of the epidemic and avoid the recurrence of the disaster. Once the system finds out the abnormal temperature, it will report to the competent personnel, and at the same time, it will report the contact list.
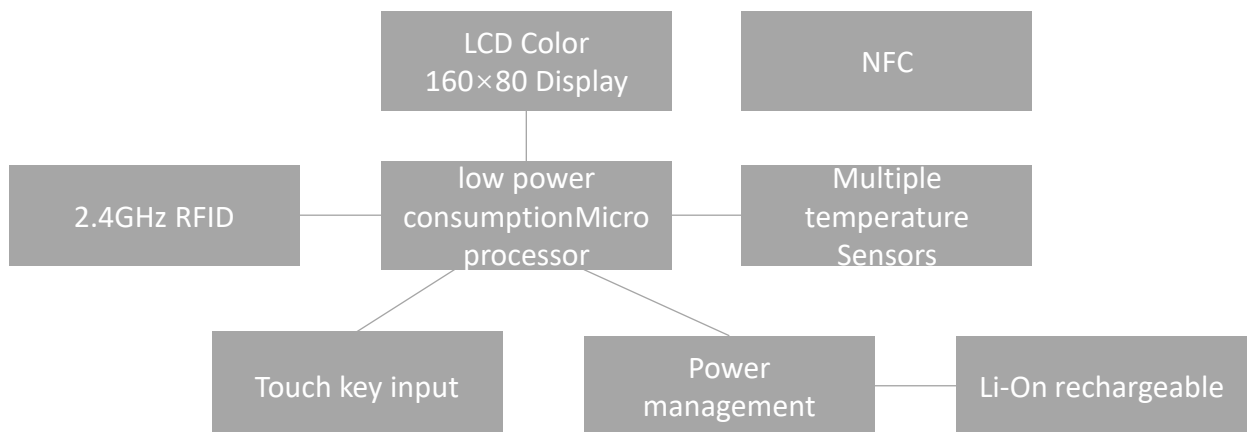
Users' temperature measurement data, relatives or authorized personnel can view the data through mobile phones or computers.

2. Product Functions and Compositions

JAVS trademark
2.4G RFID
Date
Time
Week
temperature
Electric quantity
Touch key

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wristband

Temperature sensors

- ➢ Temperature measurement and monitoring；
- ➢ Date、Time、Week display on the LCD；
- ➢ Electric quantity display on the LCD；
- ➢ 2.4G RFID Attendance and positioning；
- ➢ NFC；
- ➢ Battery charging；
- ➢ Color LCD display.

2.2 Product Compositions

LCD Color 160×80 Display	NFC

2.4GHz RFID — low power consumptionMicro processor — Multiple temperature Sensors

Touch key input — Power management — Li-On rechargeable

3. Product Instructions

3.1 Product packaging and list

NO	Name	quantity	Marks
1	JAVS18-2011SG2 IOT real-time temperature monitoring wristband tag	1	
2	Charging line	1	
3	Product Instructions	1	
4	Certificate	1	
5	Warranty card	1	

3.2 Wearing method

When wearing the bracelet, the face of the temperature sensor must be worn on the inner side of the wrist, and the tight point shall be worn to ensure good contact between the temperature sensor and the skin. Avoid incorrect measurement data.
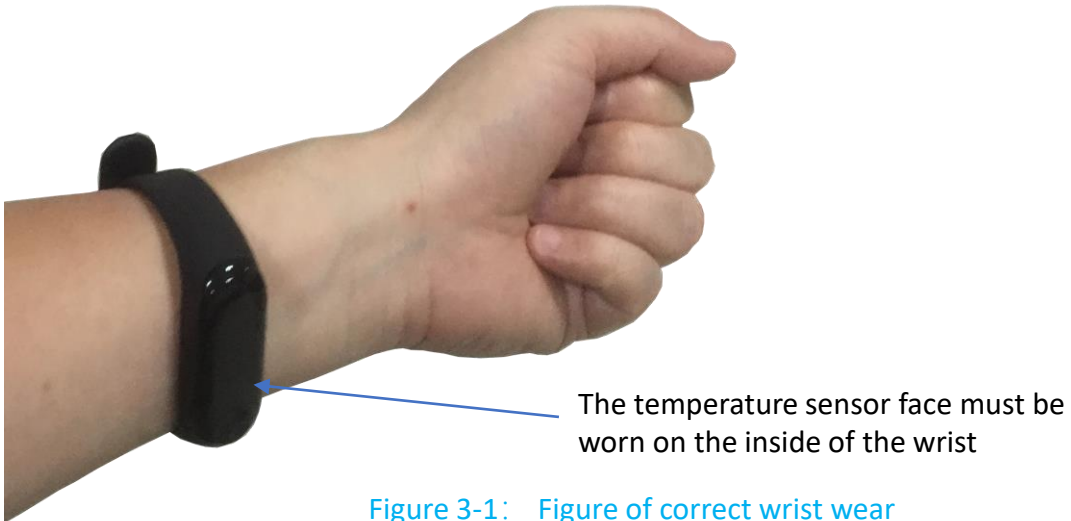

The temperature sensor face must be worn on the inside of the wrist

Figure 3-1： Figure of correct wrist wear

In order to save power, the bracelet is usually in the screen saver state. If you need to view data, touch the key with your finger. Enter display measurement data. After 10 seconds, the bracelet enters the screen saver state again.

Touch here once with your fingers. Temperature and other information can be displayed

Figure 3-2： Method chart for displaying data

3.3 Charging method

Step 1: remove the temperature measurement body from the bracelet. The removal direction is shown in the figure below.

Figure 3-3： Take down the main method diagram of temperature measurement

Step 2: insert the charging line into the temperature measurement body, and insert the other end of the charging line into the charging adapter of the mobile phone (the product does not come with its own power adapter).

Figure 3-4： Main method diagram of charging line inserting temperature measurement

Step 3: when charging, the battery will show green status. White when full, the battery will show white status.

Figure 3-4： When charging, the battery is green

Figure 3-5： When charging is complete, the battery is displayed in white.

Step 4: after charging, install the temperature measurement body back into the bracelet.

Figure 3-6： How to install the bracelet

3.4 Manual clock calibration method

Step 1: within 1 second, touch the touch key 3 times or more to enter the manual calibration.

In one second, touch the touch key 3 times or more by hand.

Figure 3-7： Manual timing method

Step 2: press the key once every 2 seconds, the current number (red indicates the current operation bit) plus 1; if you press twice or more times in 1 second, the current operation bit moves forward one bit. If there is no key operation within 20 seconds, the device abandons the current operation and enters the normal state.

When the key is pressed once, the operation result: from 2 to 3
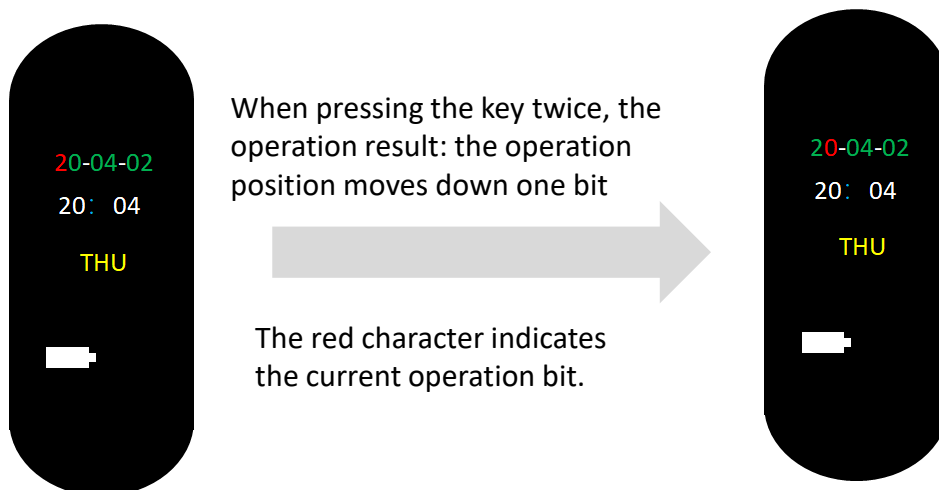
The red character indicates the current operation bit.
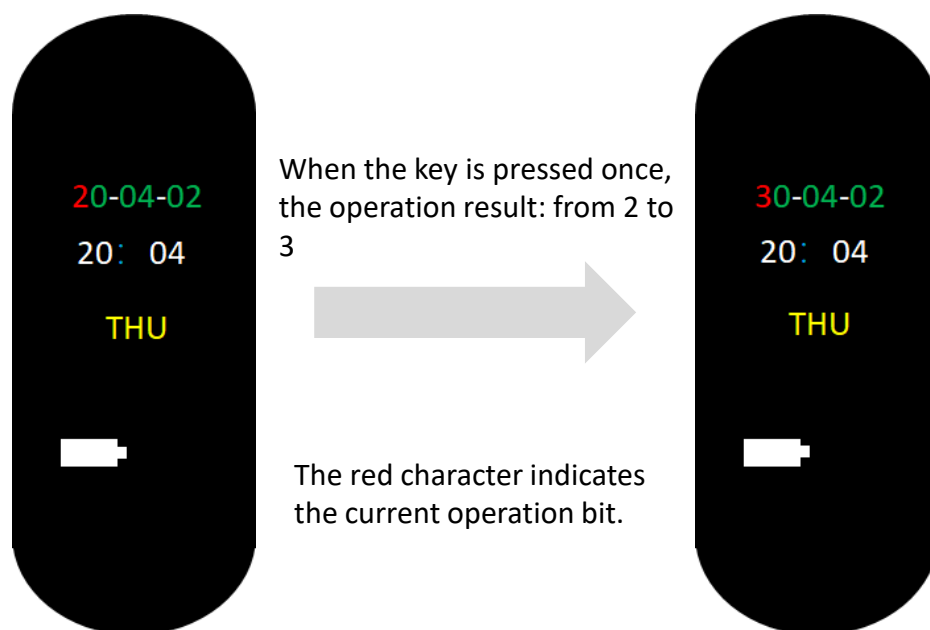
Figure 3-8： When the key is pressed once, the operation result.

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20：04

THU

When pressing the key twice, the operation result: the operation position moves down one bit

The red character indicates the current operation bit.

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Figure 3-9： When pressing the key twice, the operation result

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When setting the week, press the key twice to finish the setting. Return to normal.

The red character indicates the current operation bit.

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Figure 3-10： End operation steps

3.5 Notes

➢ Not suitable for bathing and swimming;
➢ Use the self-contained charging line to charge;
➢ Do not expose the bracelet to moisture, high temperature or extremely low environment for a long time;

4. Bracelet connected to the Internet of things

After the temperature data collected by the bracelet is connected to the Internet of things, a large number of valuable data have been formed. Through the analysis of big data, it can predict the development direction of the disease and avoid the occurrence of disasters.

After connecting to the Internet of things, the bracelet can automatically calibrate the time and temperature.

5. Product technical parameters

- Working frequency: 2.4ghz-2.5ghz;
- Working mode: active;
- Product type: wristband type tag;
- Tag agreement: JAVS enterprise agreement standard;
- Read tag capacity at the same time: more than 2000;
- Card reading distance: up to 250m;
- Recognition accuracy: 99.999999%;
- Product material: ABS plastic;
- Product color: color can be customized according to customer requirements (default black);
- Tag transmission time interval: once every 1 second;
- Temperature measurement time: once every 1 minute;
- Temperature measurement range: 34 ℃ - 42 ℃;
- Measurement accuracy: 0.1 ℃;
- Measurement method: contact measurement;
- Measurement means: multiple temperature sensor probes are measured at the same time to avoid inaccurate measurement;
- Data transmission: after the data is collected by javs18-2005 series devices, the data is transmitted to the cloud platform through the network.
- Voltage: 3.7V lithium battery power supply,battery capacity 80mah;
- Operating temperature: - 25 ℃ ~ + 75 ℃;
- Storage temperature (℃): - 40 ℃ ~ + 85 ℃;
- Working humidity: less than 95%;
- Equipment size: 278mm × 42mm × 15mm;
- Equipment weight: 50g;
- Package size:Package
- quantity: 1;
- Package weight: 80g;

6. Product use scenario description

6.1 Kindergarten, primary and secondary school use scenarios

Figure 6-1： Install JAVS18-9003B new generation campus access management system at the school gate

Figure 6-2： Install a reader in each classroom

Figure 6-3： Install reader in each dormitory

Benefits of such an application scenario：

➢ It can collect human body temperature in real time, find abnormal people as early as possible, achieve the purpose of early detection, early treatment and early isolation, and avoid the spread of the epidemic;

➢ There is no need for human intervention and temperature measurement in line;

➢ High accuracy of measurement data;

➢ Upload the measured data to the big data center;Be able to summarize the data, realize big data analysis, and notify the competent department in case of any abnormality;

➢ Be able to find the track of personnel;Be able to analyze contacts.

6.2 Other application scenarios

Figure 6-4： Installation of reader in the corridors where people flow in and out

Benefits of such an application scenario：

➢ It can collect human body temperature in real time, find abnormal people as early as possible, achieve the purpose of early detection, early treatment and early isolation, and avoid the spread of the epidemic;
➢ There is no need for human intervention and temperature measurement in line;
➢ High accuracy of measurement data;
➢ Upload the measured data to the big data center;Be able to summarize the data, realize big data analysis, and notify the competent department in case of any abnormality;
➢ Be able to find the track of personnel;Be able to analyze contacts.