



Infrared Thermometer
Model: JSK-1001



Principle of infrared temperature measurement

Infrared temperature measurement is composed of optical system, photoelectric detector, signal amplifier, signal processing and display output. The optical system gathers the infrared radiation energy of the target in its field of view. The size of the field of view is determined by the optical parts of the thermometer and its position. The infrared energy is focused on the photodetectors and converted into corresponding electrical signals. After the amplifier and signal processing circuit, the signal is converted into the temperature value of the measured target after being corrected according to the algorithm inside the instrument and the target emissivity.

In nature, all objects whose temperature is higher than zero are constantly sending out infrared radiation energy to the surrounding space. The infrared radiation energy of an object and its distribution by wavelength are closely related to its surface temperature. Therefore, through the measurement of the infrared energy of the object itself, the surface temperature of the object can be accurately measured, which is the objective basis of the infrared radiation temperature measurement.

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Product feature

1. Auto check with non contact
2. Auto power off
3. Quick measurement display
4. 3 color display back light to find out fever
5. Buzzer alarm
6. High quality control chip and infrared sensor
7. Handy & Easy to handle
8. Memories to recall

Usage

When encountering dangerous, untouchable and unreachable environments and occasions, infrared thermometer will be used as the preferred temperature measuring instrument. If the temperature measurement is needed in any inaccessible area, the infrared thermometer can measure the surface temperature and realize the non-contact measurement. The temperature range that the infrared thermometer can measure is relatively large. At present, the COVID-19 virus is prevalent in the world, and it is highly infectious. The obvious characteristic of trousers infection is fever. Using non-contact way to quickly and conveniently measure the body temperature and find out the patients with fever, the infrared thermometer is pushed to the spotlight of epidemic prevention, and is widely used. It is needed in hospitals, schools, institutions, residential areas, business centers, families, restaurants, hotels and other places. Infrared thermometer is also widely used in industry. It is an ideal and effective tool to measure the surface temperature of objects when preparing food for children or people who need to take care of.

Product introduction

This infrared thermometer is a high-quality product. It uses infrared technology.

It will conduct self-test every time it is turned on to ensure the accuracy of measurement. This infrared thermometer is mainly designed to measure the body temperature and the surface temperature of the object.

The infrared thermometer measures the temperature by detecting the infrared energy radiated by human forehead or other objects. It collects energy and converts it into temperature value, and obtains the maximum accuracy value by detecting the temperature reading of human body in the upper area of human eyebrow.

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Technical Specification:

- Auto check; Auto power off
- Low voltage prompting
- Fastest checking time: 0.5s
- Non-contact and avoiding cross infection
- 3 color display screen back light:
 - 37.3°C or lower — green
 - 37.4-38.1°C — orange
 - 38.2°C or higher — red

Free handover between body temperature and surface temperature °C/F
 Measurement Distance: 3-5cm, maximum 15cm
 Measurement Range: 32°C~43°C(89.6°F~109.2°F)

- Resolving power: 0.1°C/F
- Maximum tolerance(precision):
 - 32.0°C~34.9°C ±0.3°C
 - 35.0°C~40°C ±0.2°C
 - 42.1°C~43°C ±0.3°C
- Measurement error rate: < 0.1%

Working and storage environment:

- Temperature: 10°C~40°C
- RH: ≤85%
- ATM: 70kpa~106kpa
- Power: DC 3V (2xAAA batteries)
- Product Size: 154x86x39mm
- Weight: 100g (excluding batteries)
- Delivery without battery due to transportation limit





Main structure and components of the product

The product is mainly composed of main board, buzzer, LCD display screen, infrared sensor, key and main body shell.

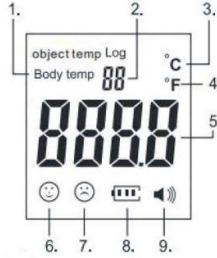
1. ON/OFF key / Detection key: turn on the device and measure the temperature.
2. Sensing head: sensing the temperature of the target part.
3. Turn down to select corresponding function.
4. Turn up to select corresponding function.
5. SET key: set corresponding functions.
6. Display screen: display relevant information.
7. Battery Cover

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Display information introduction

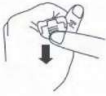
1. Temperature mode
2. Memory storage times
3. Centigrade temperature
4. Fahrenheit temperature
5. Temperature display
6. Normal
7. Abnormal
8. Low battery
9. Alarm tone



Install battery

Two new and durable 1.5V AA size batteries are attached to the machine. The battery needs to be replaced when the screen displays and flashes. Slide the battery back cover 7 in the direction indicated. Replace the battery and load the battery correctly according to the marked positive and negative poles.

1. Hold the machine and slide open the battery back cover in the marked direction.



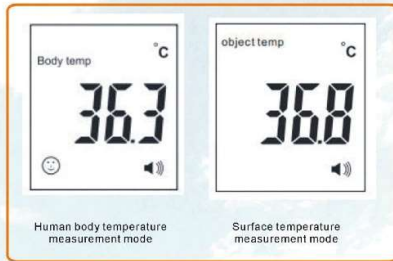
2. Put in two 1.5V AA size batteries, and pay attention to the battery polarity indication.



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How to switch the temperature measurement mode

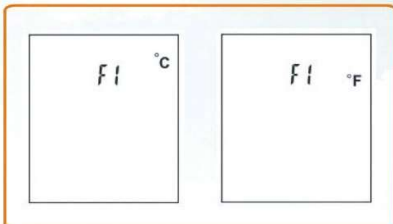
Press the ON/OFF key, the LCD back is bright, and the display screen displays for 1s. then the measurement preparation screen will be displayed. Press the "SET" key to switch between different temperature measurement modes.



Human body temperature measurement mode

Surface temperature measurement mode

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How to switch temperature units

Press "SET" for 3s to enter the user mode, F1 is unit selection mode, press "▲"/"▼" to switch the temperature unit. After setting, press "SET" for 4 times shortly to save and exit.

Surface temperature measurement mode

Press the ON /OFF key and the display screen will display the measurement preparation screen for one second after full display. After beep, align the device with the temperature measurement object, and after one beep, the measurement is completed, and the measurement results will be displayed.



Memory function

In the test mode, press "▲" And "▼" to view the stored test results.

1). Measurement preparation screen

2). Align the forehead thermometer with the temperature measuring object, and the distance from the object shall not exceed 3-5cm.

3). The indicator light flashes blue, after three beeps, the measurement is completed and the measurement results are displayed.

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Human body temperature measurement mode

Press the ON/OFF key, and the display screen will display the measurement preparation screen for 1 second.

After a beep, align the device with the center of forehead, and the measurement is completed after beeping, and the measurement results will be displayed.



1). Measurement preparation screen(°C / F icon flashes)

2). Before the measurement, remove the forehead hair, dry the sweat and clean the dirt on the forehead to ensure the accuracy of the measurement reading. Aim the thermometer at the center of the forehead, 3-5 cm from the forehead, don't exceed 15cm.

3). The indicator light flashes blue. After one beep, the measurement is completed and the measurement results are displayed.

Measurement result

The display screen backlight is **GREEN**, normal;

The display screen backlight is **ORANGE**, the temperature of the subject is in the warning range.

The display screen backlight is **RED**, the patient may have a fever.

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