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UT302H

User manual of infrared thermometer

Summary

UT302H non-contact infrared thermometer (hereinafter referred to as "thermometer") can determine the surface temperature by measuring the infrared energy radiated by the target surface

Ut302h non-contact infrared thermometer adopts ultra-low power intelligent design. The ultra-low power design ensures that the product can work for a longer time, reducing the trouble of frequent battery replacement and under power when working. Intelligent design helps users to test more easily and capture the real value of the tested object more quickly.

Precautions

- to ensure the correct use of the product, please read the manual carefully before use.
- When using the product, if the battery symbol on the LCD screen is flashing, please replace the battery immediately to prevent inaccurate measurement. Before using the product, please check the product, such as damaged, cracked or missing rubber parts, do not use.
- Avoid keeping the thermometer close to high temperature objects for a long time.
- To ensure the measurement accuracy, it is recommended to use it in the operating environment [15C ~ 30C, Rh < 85% (non condensing)].
- please use it indoors.
- The ambient temperature of the tested object shall be stable, and it can not be tested in places with large air flow, such as fan, air conditioner outlet, etc. When switching to a new environment, please place the product for about 30 minutes before measuring
- When the measured object comes from a place with a large temperature difference from the measured environment, it needs to stay in the test environment for 10-30 minutes before measurement.
- It can't be used in places with strong sunlight.
- It can not be used in the place of electromagnetic interference.

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- Do not start to measure other measured objects immediately after measuring the temperature of extremely high or low temperature objects. Please leave it for 10 minutes before measuring.
- It is recommended to measure about three times at a time, subject to the most displayed group of data.
- There is a certain slope in the head part of the product itself. When measuring, it is necessary to face the sensor window to the tested object. If the sensor window is facing away from the tested object during operation, the measured temperature will be different from the actual temperature, or even "L" will be displayed. Or "Hi"

Technical index

Function	Parameter
Temperature range	32-45℃ (89.6-113°F)
Maximum measurement accuracy	±0.3℃ (0.6°F)
Repeatability accuracy	0.3℃ (0.6°F)
Response time	500mS
Best measurement distance	5-10cm
Automatic shutdown	√ yes
Display hold	√ yes
℃/°F selection	√ yes
White backlight	√ yes
High temperature tips	Over 37.2℃ screen flashes
Work environment	15℃~30℃ (59°F~86°F), <85%Rh
Transportation environment and storage environment	-20℃~60℃ (-4°F~140°F), <85%Rh
Battery type	9V battery (6F22)
Product size	152*104*43mm
Product weight	190g

Working principle of thermometer

The infrared thermometer can measure the surface blackness of the opaque object, the optical device of the thermometer can sense the infrared concentrated on the detector, and then the electronic components of the thermometer can convert it into the original reading and display it on the display screen.

Operation method

When measuring the temperature, the thermometer shall be used to measure the target and the good board machine. The measurement result shall be displayed in real time. When the board machine is released, the reading shall be kept. If no activity is detected within 10 seconds, the thermometer will automatically shut down.

℃/°F selection setting

Open the battery compartment. There is a linear switch on the upper part of the battery compartment. Turn the switch to the left position to be Fahrenheit (°C); turn the switch to the right position to be Fahrenheit (°F)

Battery replacement

Replace the battery, open the battery cover, and remove the old battery; put in a new 6f22 battery, please pay attention to the positive and negative directions: meal notice 1. When it is not used for a long time, please take out the battery, be careful not to leak liquid, and it is forbidden to put the waste battery in the fire; 2. Properly dispose the waste battery according to the local laws and regulations to avoid pollution

Maintenance and cleaning

△ since the thermometer is a repeated use device, please note the seal for cleaning and maintenance before use; when it is not used for a long time, please keep the thermometer lens clean, pay attention to dust-proof storage, so as to avoid inaccurate measurement results caused by dirty thermometer lens

Screw cleaning

- 1. Surface cleaning: use clean soft cloth or cotton stick to allow medical alcohol or clean water to wipe the dirty place;
- 2. Lens cleaning: use clean compressed air to blow away the fallen particles. Use cotton stick to stick a little medical alcohol or clean water to wipe the dirt;

Fault diagnosis

Symptom	Problem	Action
“Hi”(on display)	Target temperature out of range	Select targets within the scope of indicators
“Lo”(on display)	Target temperature below range	Select targets within the scope of indicators
Power indicator blinks	Low battery	Battery replacement
Display blank (nothing display)	Battery depletion	Check and or replace batteries

List of accessories

- 1. Battery-----1
- 2. Warranty card /certificate-----1
- 3. Instructions -----1
- 4. Bare pager-----1

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