

1. Product description

This product is a non-contact infrared thermometer that professionally measures the temperature of the human body. It uses imported high-performance sensors to detect subtle temperature changes. The backlight color and numerical display functions are very easy to make the user clear Distinguish the temperature value, the big screen display is simple and easy to understand, it only takes one second You can measure your body temperature, this is a high-tech product you can trust

2. Basic principles

When the temperature of all objects is higher than absolute zero, a certain amount of infrared energy will be radiated. The value of infrared energy radiated by different types of objects is different, but the surface temperature of such objects can be judged according to the radiated infrared energy and wavelength value

According to this principle, the temperature of the forehead can be accurately measured due to the relatively constant temperature. Since the infrared intensity radiated from the forehead at the same temperature is different from other objects, such as the infrared energy radiated from water, there are at least two measurement modes (body temperature mode and object temperature mode). The temperature mode is based on the temperature of pure water, so when you are measuring other objects, there may be some errors depending on the properties of the objects, which is normal

3. Product features

- Non-contact high-precision measurement, clean and hygienic
- Using imported infrared sensor to ensure that the test is very accurate
- The patented software design technology ensures that the test is very stable
- Excellent adaptability to environmental changes, can be used in complex environments
- Numerical display function, simple and clear reading results
- The temperature unit can be adjusted to Celsius or Fahrenheit, which is convenient for different users
- Alarm value can be set (the default value of this product is 37.5°C)
- Automatic shutdown function. Automatic shutdown without operation within 20 seconds

4. Precautions

In order to obtain stable and reliable measurement data, when the temperature changes greatly, the human body infrared measuring instrument should be placed indoors for 30 minutes before use. The measured temperature will be different according to the skin color, thickness and body parts of the person . This is quite normal. The more exposed the human body part is, the more it is affected by the ambient temperature.

Do not expose this product to the sun, and do not touch water or other liquids

5. Tips for use

- Please read this manual carefully before use.
- The ambient temperature of this product is 0°C to 50°C, the best temperature is 25.
- Do not use this product in an environment higher than 40°C or lower than 10°C.
- Do not place the product near live objects to avoid electric shock.
- Do not use this product in an environment where the relative temperature is greater than 85%.
- Do not put this product too close to the electromagnetic range (such as radio, mobile phone, etc.).
- Please do not expose this product to the sun or near the stove, let alone contact with water.
- Please do not hit or drop this product, please do not use it if it is damaged.
- Hair on the forehead, sweat, hat or scarf will affect the accuracy of the measurement data.
- Please confirm that the measuring distance is not greater than 10cm.
- In order to obtain accurate, stable and reliable measurement data, when the room temperature changes greatly
- Put the thermometer at room temperature for 30 minutes before use.
- Forehead sweating or other reasons cause the forehead temperature to not reflect the body temperature normally
- Measure after hanging down.
- When cleaning is required, please gently wipe the surface of the instrument with alcohol.
- If there is a problem with the product, please contact the distributor, do not try to repair it yourself.
- Please place this product out of the reach of childrent

GP-100 Software User Guide

This software only supports windows system

1. Turn on the top switch of the thermometer, use the data cable to connect with the USB interface of the computer, and install the USB serial port driver.

Note: The driver is usually installed automatically If you encounter an installation failure, you need to manually install the USB driver. The software package contains part of the program dependent filesChanges will cause errors in the program. Please check the following instructions carefully

2. Operation process

(1) Open the software package folder, and then double-click the program. exe icon.

(2) When opening the software for the first time, select the "COM1" interface and click Connect Device

(3) "Fail"will change to"success

Fail

Success

Completing this step means normal connection, then temperature measurement data can be imported into the computer in real time

Note:

1. Open the software, it will automatically find the COMport, if the COM port displayed by the software is different from the computer resource manager, it will not work properly,please manually set the serial port to the corresponding serial port of the resource manager.

2. After the thermometer is turned off and then on againyou need to click "Disconnect"and then click"Connect to display success to run normally, or close the software land open the software again, This step is to refresh the connected serial port and the data will be continued Otherwise it will be impossible to read the data.

3. Data viewing and export

1. [Text Data View The "Quantity, Time, Measured Temperature, Environmental Temperature"data that will be generated after using the thermometer, the folder "This computer\ Doc"will be automaticall generated in the software package by Year Month Day sequence recording, the format is"TXT text

2. Excel Data View"Save"on the software panel and select" TXT format"to export .

4. Software Introduction

(1) Software name: GP-100APP

Success

This part is mainly to establish a communication relationship with the infrared thermometer so that the software can normally receive the temperature data measured by the infrared thermometer. If the communication is normal: display success, otherwise fail

(2) When the software just opened and not received the data sent by the infrared thermometer, "36.5°C" will be displayed

(3)When the measured temperature is displayed, normal"Is displayed under normal conditions If it exceeds a certain upper limit value, abnormal will be displayed

36.5°C

norm.

37.4°C

Abn.

(4) Display Chinese interface

(5) Display English interface

(6)Record the measured temperature data of the day, including the measured quantity, the test time and the measured temperature corresponding to each measurement object

2020-06-26 Temperature information table

No.	Test Time	Meas...	Test temp	Environment
1	2020/6/26 14:56:23	Body	36.2°C	29.2°C
2	2020/6/26 14:56:30	Body	36.5°C	29.2°C
3	2020/6/26 14:56:32	Body	36.2°C	29.3°C
4	2020/6/26 14:56:34	Body	36.2°C	29.3°C
5	2020/6/26 14:56:37	Body	36.4°C	29.2°C
6	2020/6/26 14:56:39	Body	36.9°C	29.2°C
7	2020/6/26 14:56:40	Body	38.9°C	29.3°C
8	2020/6/26 14:56:49	Body	38.9°C	29.3°C
9	2020/6/26 14:56:51	Body	37.4°C	29.3°C

(7)The default data is saved in the current path, the user can use this button to save the data of the day, you can re-select the path and set the file name, the suffix can choose .txt or .csv Save As

Save

(8)Set the upper limit of the alarm, when the measured temperature exceeds this value, the infrared thermometer will give an alarm prompt

COM: COM2

Connect

37.4°C

Abn.

2020-06-26 Temperature information table

Temp Format: Degree°C

Work Mode: Body

Warning

Up 37.3 °C Up 99.1 °F

Down 35.5 °C Down 95.9 °F

Save

Clear

(11)Display specific measurement time of the day and the environment temperature

2020-06-26 Temperature information table

5. FAQ

1. Q: Can't open the serial port?

A: Wrong selection of COM port. Solution: Connect the USB cable before opening the software, so that it will automatically recognize the port number).

B: The USB driver is not updated. Solution: Connect to the network, right-click on my computer, open the resource manager, and update the driver

2. Q: The data is not refreshed after the serial port is opened

A: Reason: The power switch of the infrared thermometer is not turned on or the device is connected after the software is turned on

Solution: reconnect the device, and then open the software.

1.Introduction

USB interface

Tripped mounting hole

Switch

Infrared thermometer

Infrared ranging sensor

Temperature display

Hanging hole

Alarm light

Unit switch

Double-sided adhesive area

Namplate

2.Specification

1. Counting capacity: 999

2. Abnormal automatic alarm: flashing+DiDi"sound

3. Automatic measurement: measuring distance 5cm-10cm

4. Screen: Digital display

5. Charging method: USB charging or battery(18650 Li-ion)

6. Install method: nail hook, double-sided adhesive sticking, bracket fixing

7. Environment temperature: 10°C-40°C(Recommended 15°C-35°C)

Infrared measuring range: 0-50°C

8. Response time: 0.5s

9. Input: DC 5V

10. Net weight: 263g

11. Standby: About one week

12. Accuracy: +0.2 degrees (34-45 °C, place it in the operating environment for 30 minutes before use)

3 Status Description

1. Standby: The red dot in the bottom of the display lights up in turn. (Fig. 1)

2. Normal temperature: Flashing green lights and alarm "DiDi" (Fig. 2)

Fig. 1

Fig. 2

3. Abnormal temperature: Flashing red lights and alarm "DiDi Di DiDi" (Fig. 4)

4. Default(boy: body mode

Lo: Ultra-low temperature(Fig. 5)

Hi: Ultra-high temperature alarm (Fig. 6)

Fig. 4

Fig. 5

Fig. 6

4.Operation instruction

1. Temperature measurement: the front of the thermometer, and within 10-15 cm (the best measurement distance) (Fig. 7)

Fig. 7

2. Unit: "°C/°F" button on the front of the device (Figure 8). Just click on it. Short press the "°C/°F" key to switch between Celsius/Fahrenheit (Figure.9, 10)

Fig. 8

Fig. 9

Fig. 10

(2)Mode: Long press Unit switch for 3 seconds to switch the temperature measurement mode (Sur: surface mode, boy: body mode, Cou: counting mode)

Fig. 11

Fig. 12

Fig. 13

3.Install and replace battery

(1)Remove three screws

(2)Open the back base and install 18650 Li battery

1.Nail hook

2.Bracket fixing

3.Double-sided adhesive sticking

4.Install method

1.Nail hook

2.Bracket fixing

3.Double-sided adhesive sticking

Warning

1. Please do not disassemble and assemble the battery without permission. If the battery is broken or exploded without authorization, it has nothing to do with our company

2. If you need to install the battery, please contact after-sales service

Manufacturer: Harbin Xiande Technology Development Co., Ltd

Office/Production Address: No.434, Post Street, Nangang District, Harbin, Heilongjiang

Technical Requirements for Products: HXLZ No 20202070039

RoHS

Made in China

Model:GP-100