

User Manual

Model: T-168



Guizhou Tekang Electronics Co.,Ltd

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Product Description





Thank you for purchasing Techconn Non-contact Infrared Thermometer.

This Infrared Thermometer is a high quality product incorporating the latest technology and tested in accordance with international standards. With its unique technology, the infrared thermometer can provide a stable, heat-interference-free reading with each measurement. The infrared thermometer is indicated for intermittent measurement and monitoring of temperature for people of all ages. It is intended for household use only.

Safety Manual

- Please read these instructions carefully before using this product and keep the instructions and the thermometer in a safe place.
- Keep the instrument away from direct exposure to the sun and keep it in a dust-free, dry area at a temperature between 5°C~40°C, and best at a temperature of 25°C.
- Please don't use this product under a temperature of either above 50°C or lower than 0°C.
- To avoid electric shock, please don't use this product near any products with electronic.
- Do not use the product in environments where the relative humidity is greater than 85%.
- Do not move the appliance too close to the electromagnetic range. (e.g. radio, cell phone, etc.).
- Do not expose the appliance to the sun or close to the stove or liquid.
- Do not hit or drop the appliance, if there is damage, please do not use.
- Make sure that the measuring distance is within 5 cm.
- When the forehead temperature is not properly reflected in the body temperature due to sweating on the forehead or other causes, measure from the earlobe.
- When cleaning is required, wipe the gauge surface with alcohol.
- Product any problems contact the distributor, can not repair the product on its own.
- Temperature measurements are prohibited when ambient temperature changes are large.

Product Feature

- 1) Non-invasive high precision thermometer.
- 2) The temperature setting could be set at either °C or °F Press  for 8 seconds when the device is on.
- 3) Alarm symbol set-up (pre-set at 38°C) It is set by default already.
- 4) Buzz prompt function(switch on&off). Press button  once when the device is on to; Switch on the buzz function.
- 5) Backlit LCD display for the users to use in the dark.Press  button once to switch on backlit function.Press  for 8 seconds to change into object test mode.
- 6) Automatic range selection;with a resolution for 0.1°C&0.1°F
- 7) Memory storage of the latest 32 measurements(press the up and down arrow keys to see the latest 32 measurements stored).
- 8) Automatic data retention and automatic switch off.

Other Instructions

Non-contact Infrared Thermometer is a professional thermometer for measuring the Physical temperature, it is widely used in the family. This thermometer can't replace the doctor's professional diagnosis.

Check Before Use

Check before you switch on the device.

Aiming at the measured target, pressing the measurement switch, the LCD displays all the numbers and characters of the self-test.

And appears a self-test screen, as shown in Picture 1 below, this screen shows for about 1 second.



Figure 1

After the self-test, a drop will be heard indicating that process has been completed and that the temperature value of the target is displayed on the LCD.

Product Structure

Products are mainly composed of infrared sensors, LCD display, buttons, housings, handles, and circuit boards.

- ①. Infrared sensor
- ②. LCD display
- ③. backlit/Power off button
- ④. Up button (View historical data)
- ⑤. Down button (View historical data)
- ⑥. Sound switch button
- ⑦. Measurement button
- ⑧. Battery cover
- ⑨. Handle



LCD Display Description

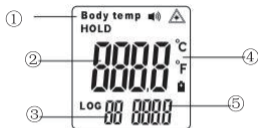


Figure 2

- ①. (BODY) Body temperature Mode
- ②. Numerical reading
- ③. Storage location
- ④. °C/°F Temperature °C/°F
- ⑤. Storage data reader

Scope of Product Application & Contraindications

1. Scope of application

To show the body temperature of the subject by measuring the thermal radiation on the forehead.

2. Contraindications

- 1) Birth defects, congenital malformations, infectious shock, circulatory failure, etc. may seriously affect the measurement of body temperature.
- 2) Mental dysfunction.
- 3) Suffering from severe heart, liver and kidney disease.

Technical Specifications

1、 Basic parameter

Decimal display	0.1°C (0.1°F)
Storage temperature	-20-55°C
Operating ambient temperature	5°C ~ 40°C , Best temperature 25°C
Humidity	≤85%
Battery	DC 3V (2 AAA batteries)
Specification	160*100*40mm
Weight	100g
Production data	Please refer to the warranty card

2、 Measurement Scale

Model temperature range in human body	32.0-42.9°C
The test object distance	5-15cm (the best distance is within 5cm)
Automatic switch off	Wait about 20 seconds

3、 Measurement accuracy

32~35.9°C (93.2~96.6°F)	±0.3°C(0.5°F)
36~39°C (96.8~102.2°F)	±0.2°C(0.4°F)
39~43°C (102.2~109.4°F)	±0.3°C(0.5°F)

4、Lifetime

The lifetime of this product is 40,000 times.

5、Software version

V1.0

6、The environment requirements for function, storage and delivery

1) Operating environment:

- Environmental temperature: 5°C~40°C. best temperature is at 25°C;

- Humidity : \leq 85%;

- Pressure: 70kPa~106kPa

- Battery: DC 3V (2 AAA batteries)

2) Storage and transport environment:

- Environment temperature: -20°C~+55°C;

- Humidity: 10%~85%;

- No corrosive gas and well-ventilated indoor environment.

- Transport requirements are required in accordance with the ordercontract, but must prevent violent shocks, vibrations and rain and snow during transport.

Operating Guide

1、 Battery instructions

At the bottom of the handle there is an oval with an indication arrow above, here, gently push the battery cover forward in the direction of the arrow by hand, and install the battery to test the use.

■ Precautions for battery installation and replacement:

- 1) When the battery cover is opened, the battery is placed in the positive and negative direction, and note that the direction of the positive and negative poles should be placed correctly.
- 2) Wait 10 minutes to warm up after first use or just after putting in a new battery.
- 3) When the battery is low, the symbol appears on the display, prompting to replace the new battery. Pay attention to positive and negative polarity when replacing a new battery with the battery compartment cover (see Product Construction ⑧). Misplacement may result in damage to the product.

4) Remove the battery for extended service when not in use for a long time and prevent damage to the thermometer due to battery leakage.

2、 Measurement steps

1) 、 Align the thermometer at the center of the forehead (above the eyebrow) and keep it vertical, at a distance of about 3-5 cm, and press the temperature of the measuring switch to display immediately.

2) 、 When the measurement switch is pressed (see product construction (7),) the current display shows the current temperature value, the measurement data can be automatically stored (press the top and bottom arrow keys to check the latest 32 measurement data stored)

Cautions:

- 1) Make sure you don't have hair, sweat, makeup or hat covering before measuring.
- 2) When the forehead sweating or other causes causes the forehead temperature does not reflect the body temperature normally, please point to the earlobe after measurement, and make sure that there is no hair, sweat, cosmetics or cap cover.
- 3) After the thermometer has not been used for a long time, the first opportunity to open the opportunity for environmental temperature detection, the start-up time is extended by 1 to 2 seconds.
- 4) People's body temperature varies with different times of the day, but also by other external conditions, such as age, sex, skin color etc.

Body Temperature Reference

1. Normal temperature range at different measurement position

The human body is a very complex biological synthesis system, body temperature is normally important indicator of human body, usually we measure the forehead, cochlear implants, anus, mouth and armpits and other places to check our health status, different parts of body temperature may vary and the differences refer to the below table:

Measuring position	Normal range (°C)	Normal range (°F)
Anus	36.6~38	97.8~100.4
Mouth	35.5~37.5	95.9~99.5
Armpit	34.7~37.3	94.4~99.1
Earlobe	35.8~38	96.4~100.4
Forehead	36~37.2	97.4~98.4

2. Normal body temperature range of different age group

The human body is a very complex biological synthesis system, body temperature is normally important indicator of human body, usually we measure the forehead, cochlear implants, anus, mouth and armpits and other places to check our health status, different parts of body temperature may vary and the differences refer to the below table:

Age	Normal range (°C)	Normal range (°F)
0~2	36.4~38.0	97.5~100.4
3~10	36.1~37.8	97.0~100.0
11~65	35.9~37.6	96.6~99.7
>65	35.8~37.5	96.4~99.5

Caution:

Women's body temperature and men are different and generally higher than men about 0.3 °C , ovulation period body temperature will be higher than usual 0.3°C- 0.5 °C

Advice

- 1.The protective glass outside the LCD frame is very important and fragile part of the meter, please use it carefully.
- 2.Please do not charge the non-rechargeable battery, do not throw the battery into the fire.
- 3.Please do not expose the product to the sun and do not touch the water.

Maintenance

1、 Maintenance and cleaning

- 1) The probe head part is the most sophisticated part of the product and must be carefully protected
- 2) Do not use a corrosive cleaning agent to clean this appliance.
- 3) Do not immerse the appliance in water or other liquid.
- 4) Place the appliance in a dry place to avoid dust, pollution and direct sunlight.
- 5) Please regularly clean the appliance, generally once a month, if necessary, according to the actual soiling status of the product to have a proper clean-up; If the appliance is particularly dirty, wipe the body with a wet cloth or neutral detergent, then wipe it with a dry cloth.

2、 Product Maintenance

If you encounter the following issues in use, follow the maintenance instructions for a solution. If the problem still exists, please contact our customer service.

- 1) No display on LCD.

In an anthropometric ally, the LCD will not display data for temperature which is below 32 °C or above 42.5°C , instead it will show "Lo" or "Hi".

- 2) LCD shows "Hi"

Using non-contact electronic temperature timing, the LCD displays the information "HI", which shows that the temperature has been exceeded or measured in human temperature measurement mode above 43°C.

3) LCD shows "Lo"






Using non-contact electronic temperature timing, the LCD displays the information "Lo", which shows that the temperature is below the measuring range or measured below 32°C in human temperature measurement mode. please refer to the table below:

The reason for LCD displays "Lo" or "Hi"	Advice
Temperature value is affected by hair and sweat	Ensure that there are no obstructions when measuring temperature
Temperature is affected by changes in airflow	Ensure that air remains stable when temperature is measured
The measurement object is too distant	Please note that the measuring object distance should not be greater than 5 cm
Walk indoors from outdoor low or high temperature environment	Please wait 20 minutes before the subject's temperature adapts to the measurement environment before the measurement

Waste Disposal

- The direct disposal of electronic products and batteries in the garbage can cause harm to the environment.
 - Please do not discard the used or expired Medical infrared thermometer into trash cans, please follow the local laws
- Please contact the manufacturer for disposal or recycling treatment.

Symbol Meaning

Symbol	Meaning	Symbol	Meaning
	Caution, refer to the attachment		Refer to the user manual
	Low voltage		Type B applied part
	No disposal		

Sales Package Part List

1 thermometer, 1 user manual, 1 quality card. The name and content of harmful substances in the product

Part name	Harmful substance					
	plumbum	mercury	cadmium	hexavalent chromium	PBB	PBDE
PCB Board (including LCD)	×	○	○	○	○	○
cover	○	○	○	○	○	○
packing material	○	○	○	○	○	○
This tables compiled by Rule "SJ/T 11364-2014".○: it means the content of harmful substance in this part is below the limited requirements by "GB/T 26572" .×: it means the content of harmful substance in this part is beyond the limited requirements by "GB/T 26572" .						

The harmful substances showed in this tables in our products using in normally do not cause any harms to human body and environment.

The harmful substances showed in this tables and exist parts refer relevant information to buyer and recycling workers. It contribute to good recycling of waste disposal.

Bo Hui

Guizhou Tekang Electronics Co.,Ltd

Manufacturer: Guizhou Tekang Electronics Co.,Ltd

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Aluminum and Aluminum Processing
Base, No.149, Yunhuan Road, Baiyun
District, Guiyang City.



Bo Hui

Quality Card

Product name: Non-contact Infrared Thermometer

Model: T-168

Manufacturer: Guizhou Tekang Electronics Co.,Ltd

This Product Has Been Tested to Meet

Technical Requirements and It Is Qualified

Non-contact Infrared Thermometer

Manufacturer: Guizhou Tekang Electronics Co.,Ltd

Address: Building 1,2,3,4, Standard Workshops of Aluminum and
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