

CONTACTLESS DIGITAL FRARED THERMOMETER

Operating Instructions
Model TDS8386



Please read carefully before using

1. INTRODUCTION: PRODUCT & CLASSIFICATION

This product measures body temperature by collecting the infrared thermal radiation from a human's forehead. Simple and convenient to operate, the thermometer produces quick and accurate results.

Scope of Use: Measuring the forehead thermal radiation of a human subject in order to determine the subject's body temperature.

2. FUNDAMENTAL WORKING PRINCIPLES

Objects emit infrared thermal radiation energy. Their radiation energy wavelength and level are directly determined by their surface temperature. Based on this principle, the design of this product adopts a high-precision infrared sensor, used for detecting the infrared radiation energy emitted by the human body with the wavelength of 8-14um. Through accurate calculation, compensation and correcting agents, this product accurately measures human body temperature.

3. PRODUCT FEATURES

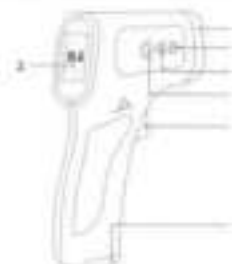
- Stable and reliable high precision infrared sensor
- Environmental temperature adaptability, enabling the product to be used across a variety of environments
- Automatically saves the last temperature measured
- Two-unit options of measurement: Celsius and Fahrenheit
- Shuts down automatically to save battery energy

4. TECHNICAL PARAMETERS

Measurement Mode	Contactless
Measuring Distance	3-5cm
Maximum permissible error	±0.2°C
Resolution ratio	0.1°C/0.2°F
Power supply	DC 3V
Backlight	High brightness backlight
According to the unit	°C/°F
Auto power-off	15s
Size	150mm x 80mm x 35mm
Weight	180g
Operating Environmental Conditions	1°C/32°F ~ 40°C/104°F
Storage environment	0°C/32°F ~ 30°C/86°F

5. COMPONENTS

- 1: Infrared detector
- 2: LCD Screen
- 3: Down key
- 4: Up key
- 5: Set key
- 6: Measuring key
- 7: Battery cover



6. FUNCTION SETTINGS

The product provides three function settings which include:
1: Switching the unit of temperature
2: Turning the audio on/off
3: Switching the measurement modes

Comparison table of function settings:

Alarms	Function	~*key	^key	Initial value
F1	Switching temperature units	Switch °F/°C	Switch °F/°C	°F
F2	Turning audio on or off	Sound ON/OFF	Sound ON/OFF	ON
F3	Switching measurement modes	Switch Body/Surface	Switch Body/Surface	Body
F4	Factory calibration	N/A	N/A	N/A

Temperature Unit settings (F1):

When the thermometer is turned on, press the "SET" key. Hold until the LCD displays "F1". And then press the "~*key or ^key to switch to "°F" or "°C".

Audio settings (F2):

When the machine is turned on, press the "SET" key until the LCD displays "F2". And then press the "~*key or ^key to turn the sound on/off.

Measurement Mode settings (F3):

When the machine is turned on, press the "SET" key, until the LCD displays "F3". And then press the "~*key or ^key to switch between Body and Surface modes.

Tips:

1. Keep the inner cavity of the sensor and probe clean before and after use.
2. Store the thermometer in a stable temperature environment. When the ambient temperature changes drastically, let the thermometer sit for about ten minutes prior to use.
3. Do not measure the body temperature immediately after measuring the temperature of an extremely high or low temperature object.
4. If the measurement object comes from an environment with a great difference from the current test environment temperature, let the thermometer sit in the test environment for at least five minutes.
5. Avoid taking measurements when the forehead is exposed to wind, water, sweat, or has applied cosmetics. Do not take measurements within 30 minutes of exercising, showering, or eating.
6. Do not disassemble or modify the machine, otherwise it will cause inaccurate measurement results.

Limited Lifetime Warranty

Your Piper & Home Contactless Digital Infrared Thermometer is backed by a limited lifetime manufacturer's warranty. Piper & Home will repair or replace your device at any time should it fail due to a defect in material or workmanship, subject to the certain limitations.

This limited warranty does not cover any damage that results from unauthorized or improper use, misuse, or repair. Further, it does not cover damage caused by accident, impact, negligence, or normal wear and tear. Should you discover your Piper & Home thermometer is not functioning properly, please send your device to our repair center for evaluation. If your product cannot be repaired or serviced, we will reserve the right to charge it for a similar or newer model.

Please note that a flat rate of \$33.00 will be charged to cover a service evaluation fee and return shipping of your device. All warranty claims must be accompanied by a copy of your proof of purchase from an authorized retailer. Please send your device, proof of purchase, and a check or money order in the amount of \$33.00 made out to Piper & Home to:

Address:
Piper & Home Service Center
455 SW 148th Ave
Davie, FL 33223

Contact:
support@piperandhome.com

8. MAINTENANCE AND PRECAUTIONS

1. Read this manual carefully before use to make sure the battery is properly installed.
2. The thermometer will only work in environmental temperatures above 15°C/59°F. It will not operate in colder ambient temperatures.
3. Keep the inner cavity of the sensor and probe clean, otherwise the accuracy of measurement will be negatively affected. Use a clean soft cloth, cotton swab or medical alcohol wipes to clean the areas exposed to dirt. Allow to dry before use.
4. Do not immerse the thermometer in liquid. Do not leave it in high or low temperature environments for a long period of time.
5. Do not collide, drop or put sharp objects in the thermometer. Do not disassemble yourself.
6. It is recommended to practice using the thermometer several times to get familiar with the measurement methods. Try not to change the factory settings.
7. Measurements are not a substitute for a physician's diagnosis.
8. Please contact the seller or manufacturer if there is any trouble during use.
9. Please dispose of the waste and residue at the end of the service life of the product accordingly with local laws and regulations.

9. TROUBLESHOOTING

Diagnosis	Solution
Screen displays "LO" OR "HI"	1. Check the object of measurement. If the forehead is exposed to wind, water, sweat, has applied cosmetics or is under other conditions, an accurate measurement cannot be guaranteed. 2. Assess the operating environment. Changes in the ambient temperature has a great influence on measurements. 3. If the ambient temperature changes too much, or the measurement of an ultra-high temperature object directly changes to the measurement of a low temperature object, place the thermometer in a relatively stable environment. Allow the thermometer to sit for 10 minutes before use. This will allow the thermometer to obtain an appropriate temperature balance before use. 4. Check the measuring distance (3 ~ 5cm).
Screen displays "ERROR"	Confirm that ambient temperature is 10°C/50.8°F ~ 40°C/104°F. If not, move the machine to a 16°C/60.8°F ~ 40°C/104°F environment and allow to sit for 30 minutes prior to using.
Buttons not responding	Unlocked and reload the batteries. Make sure that you are operating under the correct menu settings.
No display or display is abnormal	Reload the batteries.
No prompting	Check to see whether the prompt tone setting is on/off.
Shuts down immediately after turning on	Check the battery level and reload the battery.