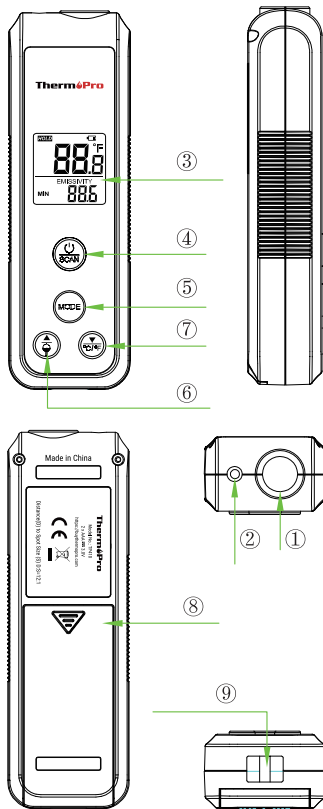


Instant-Read Digital Infrared Thermometer Instruction Manual

Thank you for purchasing the ThermoPro Instant-Read Digital Infrared Thermometer. This device lets you conveniently and accurately measure surface temperatures from a distance via infrared without the need of any direct contact.



1. Features

1. Infrared Sensor
2. Laser Light
3. LCD Display Screen
4. : Press it to turn on the device when it is off. Press and hold it to scan and measure the temperature via infrared when the device is ON.
5. : Press to cycle through the MAX/MIN/AVG temperature. Press and hold for 3 seconds to enter the emissivity adjustment mode.
6. : Press to turn on/off the backlight; When adjusting the emissivity, press this button to increase the emissivity.
7. : Press and hold for 3 seconds to select between °C and °F; When adjusting the emissivity, press this button to lower the emissivity.
8. Battery Compartment
9. Hanging Hole

2. Components

- 1 x Laser Infrared Thermometer
- 2 x AAA Batteries
- 1 x User Manual

3. Installing/Replacing Batteries

Low Battery Indication will appear on the screen when the batteries are running low.

1. Open the Battery Compartment and remove the used batteries. Dispose of the used batteries properly.
2. Insert two new AAA batteries with the correct polarity.
3. Close the Battery Compartment.

4. How to Measure Temperature via Infrared

1. Once the batteries are properly installed, press the button to turn on the thermometer.
2. Press and hold button to select between °C and °F.
3. Press and hold button to enter the emissivity adjustment mode. Press the and to increase/decrease the emissivity. See the Emissivity Data Table listed in the middle of this manual for the suggested emissivity based on the object.

* The emissivity of most organic materials and painted objects is 0.95. The default emissivity of this device is 0.95,

4. Point the thermometer towards the surface you wish to measure.
4. Press the button once to take the temperature on the surface you're pointing to, and the temperature will be shown on the upper part of the display.
5. Press and hold the button if you wish to continually take a measurement of the surface. Press the button to view the maximum, minimum and average temperature you measured during this measurement.

6. The last-measured temperature and MAX/MIN/AVERAGE temperature will remain on the display when you turn on the thermometer next time.

NOTE:

1. The thermometer cannot measure the temperature of objects behind glass. Inaccuracy may also occur when exposed to steam, dust, or any other contaminants

in the air.

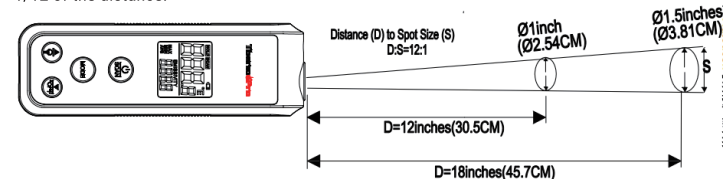
2. The thermometer only measures the surface temperature of the objects via infrared.

4. Auto-off feature

If no button is pressed, the thermometer will turn off automatically in 90 seconds.

5. Distance-Spot Ratio

The thermometer measures surface temperature based on the distance to spot diameter ratio (D:S). As the distance between the thermometer and the surface increases, the total surface area measured will also increase. For example, with a distance to spot ratio of 12:1, the surface area measured has a diameter of roughly 1/12 of the distance.



For the most accurate results, make sure the target has a surface area of twice the corresponding spot diameter. Insufficient surface area will result in inaccuracies. For example, if you use a thermometer with DS ratio 12 to measure an area with a diameter 1 inch (or 25.4mm), the recommended distance to hold the thermometer from the surface of measurement is 6 inches (152mm) or shorter away from the surface.

6. Emissivity

The emissivity of a material is its efficiency in emitting thermal energy. Non-reflective surfaces have a higher emissivity (closer to 1) than reflective surfaces (closer to 0). Inaccurate results may occur when measuring reflective surfaces such as glass, polished wood, and granite.

To take accurate temperature measurement of reflective surfaces with low emissivity, place a strip of masking tape over the surface and allow for it to adjust to the temperature of the surface for approximately 30 minutes. Measure the surface, scanning the taped section, eliminating the issue of inaccuracy.

The emissivity of most organic materials and painted objects is 0.95. The default emissivity of this thermometer is 0.95, no

need to modify. If you would like to improve the measurement accuracy of different objects, you can refer to the emissivity data table below.

| Objects | Emissivity |
|----------|------------|
| Aluminum | 0.30 |
| Asbestos | 0.95 |
| Asphalt | 0.95 |



| | |
|-------------|------|
| Basalt | 0.70 |
| Brass | 0.50 |
| Iron | 0.70 |
| Lead | 0.50 |
| Limestone | 0.98 |
| Oil | 0.94 |
| Paint | 0.93 |
| Brick | 0.90 |
| Carbon | 0.85 |
| Ceramics | 0.95 |
| Concrete | 0.95 |
| Copper | 0.95 |
| Sludge | 0.94 |
| Frozen food | 0.90 |
| Hot food | 0.93 |
| Glass | 0.85 |
| Ice | 0.98 |
| Paper | 0.95 |
| Plastic | 0.95 |
| Rubber | 0.95 |
| Sand | 0.90 |
| Stone | 0.70 |
| Snow | 0.90 |
| Steel | 0.80 |
| Fabric | 0.94 |
| Water | 0.93 |
| Wood | 0.94 |

7. Safe Use & Care

DO NOT point at any person or animal.
DO NOT attempt to point at an aircraft.
DO NOT allow children to operate the device.
Use two 1.5V AAA batteries when replacing the batteries within the device.

Make sure to insert the batteries in accordance with the correct polarities. ALWAYS remove the batteries when cleaning the device.

DO NOT use leaking batteries or dispose of old batteries in fire.

Remove the batteries if storing the device for a prolonged period of time.

DO NOT disassemble the device or tamper with internal components. Doing so will void any warranty.

DO NOT touch the lens or wipe it using anything other than a soft cloth or cotton swab.

Keep the thermometer away from electromagnetic fields produced by objects such as arc welders and induction heaters. DO NOT expose the thermometer to direct sources of heat for extended periods of time.

The thermometer measures surface temperature, not internal temperature. Do not use it as a reliable source to measure body temperatures.

8. Declaration of Conformity

Hereby, the manufacturer declares that this product with the basic requirements and applicable regulations of the Radio Equipment Directive 2014/53/EU, the EMC

Directive 2014/30/EU. The complete declaration of conformity can be found at: <https://buythermopro.com/eu-declaration-of-conformity/>

9. Disposal of the Electronic Appliance



This electronic appliance should not be disposed of with normal household waste.

Dispose of the unit at an approved facility or at your local recycling center. Please observe the current rules and regulations when disposing of the appliance. Contact your local council if in doubt.

10. Limited One-Year Warranty

ThermoPro warrants this product to be free of defects in parts, materials and workmanship for a period of one year, from date of purchase.

Should any repairs or servicing under this warranty be required, contact Customer Service by phone or email for instructions on how to pack and ship the product to ThermoPro.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

11. Customer Service

Call or Text: 1-877-515-7797
(USA & Canada only)
44-808-164-1683(UK)

Email: service@buythermopro.com

Hours: Weekdays 8:00AM - 8:00PM EST

(USA & Canada only)
Weekdays 1:00PM - 12:00PM CET(UK)

| Specification | |
|---------------------|---|
| Temperature Range | -58 to 1022°F(-50 to 550°C) |
| Tolerance | ±3°F (±1.5°C) from 14 to 212°F (-10 to 100°C), otherwise ±2% |
| Response Time | 500ms |
| Sensor Type | Thermopile Sensor |
| Distance-Spot Ratio | 12: 1 |
| Display | LCD: 1 Length x 1 Width inches (25 L x 25 W mm) |
| Backlight | Y |
| Unit Size | 5 Length x 1 $\frac{5}{8}$ Width x 1 Height inches (125 L x 40 W x 25 H mm) |
| Power | 3.0V (2 x AAA batteries) |