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› ERICKHILL Infrared Thermometer 600SPMT User Manual

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ERICKHILL Infrared Thermometer 600SPMT User Manual

Model: 600SPMT

1. INTRODUCTION

Thank you for choosing the ERICKHILL 600SPMT Infrared Thermometer. This non-contact digital laser thermometer is designed for safe and accurate temperature measurement across a wide range of applications, from cooking and grilling to industrial and automotive use. It features a broad temperature range of -50°C to 600°C, adjustable emissivity, and a clear LCD display. This model also includes a meat probe for internal temperature measurements.

Please read this manual thoroughly before use to ensure proper operation and to maximize the lifespan of your device.

Alta precisione $\pm 1.5^{\circ}\text{C}$

Più preciso



Figure 1.1: ERICKHILL Infrared Thermometer 600SPMT.

2. WHAT'S IN THE BOX

- 1 x ERICKHILL Infrared Thermometer
- 1 x Meat Temperature Probe
- 2 x AAA Batteries
- 1 x User Manual (this document)

3. SAFETY INFORMATION

Important Safety Warnings:

- **Laser Safety:** This device uses a Class 2 laser. **DO NOT** stare directly into the laser beam or point it at people or animals. Direct eye exposure can cause permanent eye damage.
- **Not for Human Temperature:** This infrared thermometer is designed for industrial and surface temperature measurements.

It is **NOT** suitable for measuring human or animal body temperature. Readings may be inaccurate for biological surfaces.

- **Transparent Objects:** The infrared thermometer cannot accurately measure the temperature of transparent objects (e.g., glass, plastic, water) as it will measure the surface temperature of the object behind them.
- **Electrical Safety:** Exercise caution when measuring hot surfaces. Do not touch surfaces that may be extremely hot.
- **Battery Safety:** Ensure batteries are inserted with correct polarity. Do not mix old and new batteries or different types of batteries. Remove batteries if the device will not be used for an extended period.

Non per l'uso su umani



Figure 3.1: The ERICKHILL Infrared Thermometer is not intended for measuring human body temperature.



4. SETUP

4.1 Battery Installation

1. Locate the battery compartment cover on the handle of the thermometer.
2. Open the cover.
3. Insert the two AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

4.2 Initial Power On

Press the trigger to power on the device. The LCD display will illuminate, and the device will be ready for measurement.

5. OPERATING INSTRUCTIONS

5.1 Non-Contact Infrared Measurement

1. Point the thermometer at the target surface.
2. Press and hold the trigger. The laser pointer will activate to help aim.
3. The measured temperature will be displayed on the LCD screen within 0.5 seconds.
4. Release the trigger to hold the reading on the display. The device will automatically shut off after 12 seconds of inactivity to conserve battery.



Figure 5.1: Non-contact measurement for safe temperature readings, such as on a BBQ.

Riparazione e ispezione del veicolo



Figure 5.2: Using the thermometer for vehicle repair and inspection.



Figure 5.3: Using the thermometer to troubleshoot AC appliance temperatures.

5.2 Using the Meat Temperature Probe

For internal temperature measurements of food items like meat, use the included meat probe. The probe provides direct contact temperature readings, complementing the non-contact infrared measurements.

1. Connect the meat probe to the designated port on the thermometer (if applicable) or use it as a standalone device.
2. Insert the probe into the food item to the desired depth.
3. Read the temperature directly from the probe's display or the main unit's display.

5.3 Unit Switching (°C/°F)

To switch between Celsius (°C) and Fahrenheit (°F), press the °C/°F button on the device. The current unit will be displayed on the LCD.

Schermo LCD per la protezione degli occhi



Figure 5.4: Switching between Celsius and Fahrenheit temperature units.

5.4 Adjustable Emissivity

Emissivity (ϵ) is the ability of a material to emit thermal energy. Different materials have different emissivities. For accurate readings, adjust the emissivity setting (0.1-1.0) to match the target material. Refer to common emissivity tables for guidance. The device allows for precise measurement of various surface temperatures.



Figure 5.5: Examples of emissivity values for different materials.

5.5 High/Low Temperature Alarm

The thermometer features a high/low temperature alarm function. You can set specific high and low temperature thresholds. If the measured temperature exceeds the high limit or falls below the low limit, the device will alert you, often with a visual indicator on the display.



Figure 5.6: Setting and indication of high/low temperature alarms.

6. MAINTENANCE

- **Cleaning:** Use a soft, damp cloth to clean the device casing. Do not use abrasive cleaners or solvents. Keep the lens clean for accurate readings.
- **Storage:** Store the thermometer in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Calibration:** The device is factory calibrated. If you suspect inaccuracies, contact customer support for potential recalibration services.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/Device won't turn on	Dead or incorrectly inserted batteries.	Check battery polarity; replace batteries.
Inaccurate readings	Incorrect emissivity setting; dirty lens; target too far; transparent target.	Adjust emissivity; clean lens; move closer to target (within 12:1 D:S ratio); avoid transparent surfaces.
Laser not visible	Laser function disabled (if applicable); bright ambient light.	Check settings; use in less bright conditions.
"HI" or "LO" displayed	Temperature is outside the measurement range (-50°C to 600°C).	Ensure target temperature is within the device's specified range.

8. SPECIFICATIONS

Feature	Detail
Brand	ERICKHILL
Model Name	600SPMT
Temperature Range	-50°C to 600°C (-58°F to 1112°F)
Accuracy	±1.5°C or ±1.5% (whichever is greater)
Response Time	0.5 seconds
Distance to Spot Ratio (D:S)	12:1
Emissivity	Adjustable from 0.1 to 1.0
Display Type	Digital LCD with Backlight
Units	Celsius (°C) / Fahrenheit (°F)
Special Features	Laser Pointer, Auto-Off, High/Low Temperature Alarm, Adjustable Emissivity, Meat Probe Included
Power Source	2 x AAA Batteries (included)
Material	Plastic
Certifications	CE, FDA, FCC, RoHS, UKCA

9. WARRANTY AND SUPPORT

ERICKHILL offers a **3-year after-sales service** and technical support for this product. If you encounter any issues or have questions regarding the ERICKHILL 600SPMT Infrared Thermometer, please do not hesitate to contact our customer support team. We are committed to providing safe, accurate, and durable products, and we value your feedback. For support, please visit the ERICKHILL store on Amazon or contact us directly through the platform.

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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