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› **Testo 104-IR Infrared Thermometer Gun – Dual Temperature Gun for Surface and core temperatures – Waterproof Infrared Thermometer for up to 482 Degrees – HACCP Compliant**

Testo 0560 1040

Testo 104-IR Infrared Thermometer Gun User Manual

Model: 0560 1040

1. PRODUCT OVERVIEW

The Testo 104-IR is a versatile dual-purpose thermometer designed for accurate temperature measurements in various applications, particularly within the food industry. It combines the functionality of an infrared thermometer for non-contact surface temperature readings and a foldable penetration probe for precise core temperature measurements.

Its robust, waterproof design (IP65) makes it suitable for demanding environments, and its compact, foldable form factor ensures portability and ease of use. The device features a clear, backlit LCD display for quick and easy readouts, and it is HACCP compliant, ensuring reliability for food safety applications.

Figure 1: The Testo 104-IR thermometer with its foldable penetration probe extended, showing the digital display.

2. SAFETY INSTRUCTIONS

- Always read the user manual thoroughly before operating the device.
- Do not point the infrared laser directly at eyes or reflective surfaces.
- Ensure the penetration probe is clean before and after each use, especially when measuring food items.
- Do not expose the device to extreme temperatures or direct sunlight for prolonged periods.
- Use only the specified battery type (2 x AAA batteries).
- Keep the device out of reach of children.
- Dispose of batteries and the device according to local regulations.

3. SETUP

3.1 Battery Installation

1. Locate the battery compartment on the back of the device.

2. Open the battery compartment cover.

3. Insert two AAA batteries, ensuring correct polarity (+/-).

4. Close the battery compartment cover securely.

Figure 2: View of the battery compartment, showing the placement of AAA batteries.

3.2 Initial Power On

The device automatically powers on when the penetration probe is unfolded. Ensure the display illuminates upon unfolding.

4. OPERATING INSTRUCTIONS

4.1 Infrared (IR) Measurement (Non-Contact)

For quick surface temperature readings, use the infrared sensor. This is ideal for checking temperatures of packaged goods or surfaces without direct contact.

1. Ensure the penetration probe is folded in.

2. Point the front of the thermometer towards the surface to be measured.

3. Press the "ON" button to activate the infrared measurement and laser pointer. The laser dots indicate the measurement area.

4. Read the temperature displayed on the LCD screen.

Figure 3: Close-up view of the Testo 104-IR's top, showing the two infrared laser pointers in operation.

4.2 Penetration Probe Measurement (Contact)

For accurate core temperature readings of semi-solid or liquid substances, use the foldable penetration probe.

1. Unfold the penetration probe. The device will automatically power on.

2. Insert the probe into the substance to be measured, ensuring the tip is fully immersed to the desired depth.

3. Wait for the reading to stabilize on the display. The device has a fast reaction time (t99 = 10 seconds in moving liquid).

Figure 4: The Testo 104-IR in use, measuring the core temperature of a food item with its penetration probe.

4.3 Hold and Min/Max Functions

- **HOLD:** Press the "HOLD" button to freeze the current temperature reading on the display. Press again to release.
- **MIN/MAX:** While in measurement mode, press the "MIN/MAX" button to cycle through the minimum and maximum temperatures recorded during the current measurement session.

4.4 Power Off

To turn off the device, fold the penetration probe back into its housing. The device will automatically power down.

5. MAINTENANCE

5.1 Cleaning

The Testo 104-IR is waterproof (IP65 rated), allowing for easy cleaning under running water or with a damp cloth. Ensure the probe is thoroughly cleaned and disinfected after each use, especially when used with food products.

Figure 5: The Testo 104-IR demonstrating its waterproof capability by being rinsed under running water.

5.2 Battery Replacement

When the battery indicator on the display shows low power, replace the batteries as described in Section 3.1. Always use fresh AAA batteries.

5.3 Storage

Store the thermometer in a clean, dry place at room temperature. Ensure the probe is folded in to protect it from damage.

6. TROUBLESHOOTING

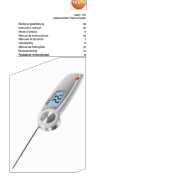| Problem	Possible Cause	Solution
Device does not turn on.	Batteries are dead or incorrectly inserted.	Check battery polarity or replace batteries.
Inaccurate readings.	Probe not fully immersed; IR sensor obstructed; Emissivity setting incorrect (for IR).	Ensure probe is fully immersed. Clean IR sensor. Refer to advanced settings for emissivity adjustment if applicable (not detailed in basic manual).
Display is dim or flickering.	Low battery power.	Replace batteries.

7. TECHNICAL SPECIFICATIONS

Parameter	Value
Measuring Range (NTC Probe)	-58° to 482°F / -50 to +250°C
Measuring Range (Infrared)	-22° to 482°F / -30 to +250°C
Accuracy (NTC Probe)	±2°F (-58° to -22.2°F), ±0.9°F (-22° to 211.8°F), ±1% of mv (Remaining Range)
Accuracy (Infrared)	±4.5°F (-22° to -4.2°F), ±3.6°F (-4° to 31.8°F), ±2.7°F or ±1.5% of mv (Remaining Range)
Resolution	0.1°F / 0.1°C
Reaction Time (NTC Probe)	t99 = 10 sec (measured in moving liquid)
Measuring Rate	0.5 sec
Weight	7 oz. (incl. batteries) / 198 g (incl. batteries)
Dimensions (probe folded)	178 x 48 x 23 mm (7 x 1.9 x 0.9 in.)
Operating Temperature	-4° to 122°F / -20 to +50°C
Housing Material	ABS / TPE / PC, diecast zinc, stainless steel
Standards	EN 13485, HACCP Compliant
Battery Type	2 x AAA batteries
Battery Life	10 h at 25°C typical
Display Type	LCD, backlit
Protection Class	IP65 (Waterproof)

8. WARRANTY AND SUPPORT

Testo products are manufactured to high quality standards and come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Testo website.

For technical support, service, or calibration inquiries, please contact Testo customer service. Contact information can typically be found on the Testo website or in the packaging materials.

You can visit the official Testo store on Amazon for more information:Testo Store

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