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BESTEK BTAD515

BESTEK Non-Contact Electronic Infrared Thermometer BTAD515 User Manual

1. Introduction

Thank you for choosing the BESTEK Non-Contact Electronic Infrared Thermometer BTAD515. This device is designed for quick, accurate, and hygienic temperature measurement without physical contact. It utilizes an infrared sensor to provide readings in approximately one second and can store up to 32 measurement records. Please read this manual thoroughly before use to ensure proper operation and to maintain the device's longevity.



Figure 1: Front view of the BESTEK Non-Contact Electronic Infrared Thermometer BTAD515.

2. Safety Information

- This is a precision instrument. Avoid strong impacts or dropping the device, as this may cause malfunction.
- Ensure correct battery polarity (+/-) when installing batteries. Incorrect installation can damage the device.
- Use new disposable alkaline AAA batteries. Do not mix old and new batteries or different types of batteries.
- The battery cover is designed to be firm to prevent accidental removal during use. Please understand that it may require a slight effort to open.
- Keep the device out of reach of children.
- Do not immerse the device in water or other liquids.
- Do not attempt to disassemble or repair the device yourself. Contact customer support for assistance.

3. Product Overview

The BESTEK BTAD515 thermometer offers a user-friendly design with essential features for reliable temperature measurement.



Figure 2: Key features of the BESTEK Non-Contact Thermometer, including large LCD, battery operation, and Japanese manual.

Device Components



Figure 3: Labeled components of the thermometer.

1. **LCD Display:** Shows temperature readings, mode, and memory indicators.
2. **Infrared Sensor:** Detects infrared energy for non-contact temperature measurement.
3. **Power/Measure (SCAN) Button:** Powers on the device and initiates temperature measurement.
4. **SET Button:** Used to switch between measurement modes.
5. **'+' Button:** Used to navigate through stored memory records.
6. **'-' Button:** Not explicitly described in provided data, typically for settings adjustment or memory navigation.
7. **Battery Cover:** Located on the back, protects the battery compartment.

4. Setup

4.1 Battery Installation

1. Locate the battery cover on the back of the thermometer.
2. Gently slide or open the battery cover. It is designed to be firm to prevent accidental opening.

3. Insert two new AAA dry cell batteries into the compartment, ensuring that the positive (+) and negative (-) terminals match the indicators inside the compartment.
4. Close the battery cover firmly until it clicks into place.

Note: Batteries are not included and must be purchased separately. For initial use, it is recommended to use new disposable alkaline batteries.

5. Operating Instructions

5.1 Power On/Off

- To power on the device, press the **Power/Measure (SCAN)** button. The LCD display will light up.
- The device features an **Auto-Off Function**. If no operation is performed for approximately 15 seconds, the device will automatically power off to conserve battery life.



Figure 4: Auto-off function and memory feature.

5.2 Measurement Modes

The thermometer supports two measurement modes:

- **Normal Measurement Mode:** For measuring body temperature.
- **Object Measurement Mode:** For measuring the temperature of surfaces, liquids, or food.

To switch between modes, press the**SET** button. The current mode will be indicated on the LCD display.



Figure 5: Switching between Normal and Object Measurement Modes.

5.3 Taking a Measurement

1. Ensure the correct measurement mode is selected (Normal for body, Object for other items).
2. Point the infrared sensor towards the target (e.g., forehead for body temperature, liquid surface for object temperature) at a distance of 1-3 cm.
3. Press the **Power/Measure (SCAN)** button.
4. The temperature reading will be displayed on the LCD screen in approximately 1 second.



Figure 6: Quick 1-second temperature measurement.



Figure 7: Versatile measurement for various applications.

5.4 Memory Function

The device automatically stores up to 32 measurement records. To view past readings:

1. When the device is powered off (LCD display is blank), press the **'+'** button.
2. The most recent measurement (LOG1) will be displayed.
3. Press the **'+'** button repeatedly to cycle through previous records, from LOG1 to LOG32.

6. Maintenance

- **Cleaning:** Clean the device casing with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.
- **Sensor Care:** Keep the infrared sensor clean and free from dust, dirt, or fingerprints to ensure accurate readings. Use a soft cotton swab or lens cloth if necessary.
- **Storage:** Store the thermometer in a cool, dry place, away from direct sunlight, extreme temperatures, and high

humidity.

- **Battery Replacement:** If the low battery indicator appears on the display, replace both AAA batteries with new ones. Remove batteries if the device will not be used for an extended period to prevent leakage.

7. Troubleshooting

- **Device does not turn on or display is blank:**
  Check if batteries are installed correctly with the correct polarity. Replace with new AAA batteries.
- **Inaccurate or inconsistent readings:**
  Ensure the infrared sensor is clean and free from obstructions. Verify the measurement distance is between 1-3 cm. Make sure the correct measurement mode (Normal for body, Object for surfaces) is selected. Avoid taking measurements in environments with rapid temperature changes.
- **Error message on display:**
  Specific error codes may indicate different issues. Please refer to the comprehensive instruction manual for a detailed list of error codes and their solutions. If the issue persists, contact customer support.

8. Specifications

Model Number	BTAD515
Measurement Method	Non-contact infrared
Measurement Accuracy	±0.2°C
Measurement Distance	1-3 cm
Memory Records	32
Dimensions	Approx. 14.9 × 9.5 × 4.3 cm
Weight	Approx. 93g (main unit only)
Power Source	2 x AAA dry cell batteries (sold separately)
Material	Acrylonitrile Butadiene Styrene (ABS)

9. Warranty and Support

BESTEK is a Japanese corporation committed to quality. All products undergo thorough inspection in Japan before shipment to ensure they meet our high standards.
Should you encounter any quality concerns or require assistance with your BESTEK BTAD515 thermometer, please do not hesitate to contact our customer support. We are dedicated to providing sincere and prompt support to resolve any issues you may experience.
Please refer to the product packaging or our official website for specific contact information.

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