CEM DT-161

CEM DT-161 Professional Instant Read Meat Thermometer User Manual

Model: DT-161 | Brand: CEM

1. INTRODUCTION

The CEM DT-161 is a professional-grade instant-read digital thermometer designed for quick and accurate temperature measurement of various food items and liquids. Featuring an ultra-fast response time, high accuracy, and a waterproof design, it is suitable for a wide range of culinary applications, from grilling and baking to candy making and checking water temperatures. Its user-friendly design includes a large, backlit, auto-rotating display and simple controls for ease of use.

2. PRODUCT FEATURES

- **Ultra-Fast and Highly Accurate:** Features a temperature probe with 1-2 second response time and an accuracy of ±0.5°F (±0.3°C) over a wide range of -58°F to 572°F (-50°C to 300°C).

- **Multi-Use Design:** Suitable for cooking, grilling, baking, candy making, and checking liquid temperatures. Includes a built-in folding metal surface for convenient storage on refrigerators or ovens.

- **IP67 Waterproof Durability:** Constructed with a high-strength ABS/TPE plastic body for excellent fall resistance. IP67 rated waterproof, allowing for washing under running water (do not soak or use in a dishwasher).

- **Large Backlit Display:** Equipped with a 180° auto-rotating and backlit display for clear instant readings in various lighting conditions, suitable for both right and left-handed users.

- **Easy Operation:** Activates upon unfolding the probe. Features one-click operation for switching between °F and °C. The "HOLD" button locks the current temperature, and a long press can display maximum or minimum recorded temperatures. Automatic display shut-off after 10 minutes of inactivity.

- **Certified for Food Safety:** HACCP, NSF, CE, RoHS, and UKCA certified for food safety and commercial use.

Image: The CEM DT-161 thermometer with its probe extended, displaying a temperature reading. This illustrates the device's readiness for use.

Best Test & Measurement Solution for you

Since 1991, CEM is dedicated to innovating around the needs of our customers, continuously pushing the boundaries of accuracy. We develop networks, solutions, and devices, serving one-third of the world's population in over 140 countries. We are connecting systems, businesses, cities, societies, and people around the globe; improving efficiencies, transforming industries, and ultimately creating better experiences for everyone.

Image: A visual representation of the thermometer's motion-sensing capabilities, including automatic power on when the probe is opened, sleep mode, and wake-up function.

33 YEARS
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1500+ Products
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SINCE 1991

CERTIFICATIONS:
ISO9001 / ISO2200 / ISO13485
CE/UKCA/UL/ETL/ROHS/EMC/LVD/FCC/FDA

Image: A hand holding the CEM DT-161 thermometer under running water, highlighting its IP67 waterproof feature for easy cleaning.
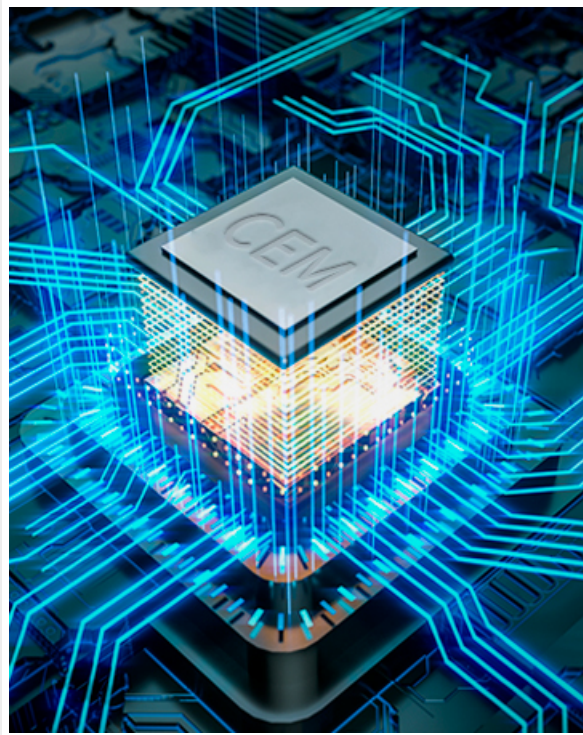
Image: The thermometer's large, backlit display is shown in a dimly lit setting, emphasizing its readability in various conditions.

3. SETUP

1. **Battery Installation:** The thermometer requires 2 AAA batteries (included). To install or replace batteries, open the battery compartment cover. Ensure the batteries are inserted with the correct polarity. Note: The thermometer ships with batteries installed but wrapped in plastic; remove this plastic before first use.

2. **Initial Power On:** The device automatically powers on when the probe is unfolded.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- **To Power On:** Unfold the stainless steel probe from the thermometer body. The display will automatically turn on.

- **To Power Off:** Fold the probe back into the thermometer body. The display will automatically turn off. The device also features an automatic shut-off after 10 minutes of inactivity to conserve battery life.

4.2 Temperature Measurement

1. Unfold the probe to power on the thermometer.

2. Insert the tip of the stainless steel probe into the center of the food or liquid you wish to measure. Ensure the probe is inserted deep enough to get an accurate reading, avoiding bones or fat.

3. The temperature reading will appear on the display within 1-2 seconds.

4.3 Unit Selection (°C/°F)

Press the **°C/°F** button located on the front of the thermometer to switch between Celsius and Fahrenheit temperature units.

4.4 HOLD Function

Press the **HOLD** button to lock the current temperature reading on the display. This is useful when you need to remove the thermometer from the heat source to view the reading. Press the button again to release the hold and resume live temperature measurement.

4.5 MAX/MIN Function

Press the **MAX/MIN** button to view the maximum temperature recorded since the device was last powered on or reset. Press it again to view the minimum temperature. Press a third time to return to live temperature measurement.

Your browser does not support the video tag.

Video: An official product video demonstrating the features and usage of the CEM DT-161 Instant Read Meat Thermometer, including its rapid response and display functions.

5. MAINTENANCE

- **Cleaning:** The thermometer is IP67 waterproof. Wipe it with a soapy cloth or rinse it under running water to clean. **DO NOT** soak the thermometer in water or place it in a dishwasher.

- **Storage:** Fold the probe back into the thermometer body when not in use. Store in a dry place at room temperature. The built-in magnet allows for convenient storage on metallic surfaces.

- **Battery Replacement:** Replace the 2 AAA batteries when the display indicates low power or fails to turn on. Ensure correct polarity during installation.

6. TROUBLESHOOTING

- **Thermometer Will Not Turn On:**

  - Ensure the probe is fully unfolded. The device powers on automatically when the probe is extended.
  - Check the batteries. The thermometer ships with batteries installed, but they may have a plastic film that needs to be removed before first use. Open the battery compartment and remove any protective film, then reinsert the batteries with correct polarity.
  - Replace the batteries with fresh AAA batteries if the existing ones are depleted.

- **Inaccurate Readings:**

  - Ensure the probe is inserted into the thickest part of the food, avoiding bones or fat, which can affect readings.
  - Allow sufficient time for the reading to stabilize (typically 1-2 seconds).
  - If persistent inaccuracies occur, the thermometer may require calibration. Refer to the manufacturer's website or contact customer support for calibration instructions.

7. SPECIFICATIONS

Feature	Specification
Model Name	CEM DT-161
Temperature Range	-58°F to 572°F (-50°C to 300°C)
Accuracy	±0.5°F (±0.3°C)

Response Time	1-2 seconds
Waterproof Rating	IP67
Display Type	Digital, Auto-Rotating, Backlit
Power Source	2 x 1.5V AAA batteries (included)
Outer Material	ABS/TPE Plastic, Stainless Steel Probe
Item Length	5.9 Inches (probe)
Certifications	HACCP, NSF, CE, RoHS, UKCA

8. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your CEM DT-161 thermometer, please refer to the product packaging or visit the official CEM website. Keep your purchase receipt for warranty claims.