CEM DT-8806H

CEM DT-8806H Contactless Infrared Thermometer User Manual

Model: DT-8806H | Brand: CEM

1. Product Overview

The CEM DT-8806H is a precise, non-contact infrared thermometer designed for quick and accurate temperature measurements. It is suitable for both body temperature screening and measuring the temperature of objects and surfaces. This device incorporates advanced technology and a sensitive sensor to ensure reliable readings.

Figure 1: Front view of the CEM DT-8806H Contactless Infrared Thermometer, showing the display and measurement button.

Key Features:

- **Clinical and Hospital Quality:** Certified according to ISO 13485, CE, FCC, ROHS, and FDA, complying with EN 60601-1.2006+ A12:2014, EN 60601-1-2:2015.
- **High Accuracy:** Provides accurate measurements within 0.2 °C (for 36-39 °C range) in 0.5 seconds.
- **Contactless Measurement:** Operates at a distance of 5-15 cm, ensuring hygienic use.
- **Digital LCD Display:** Clear display for easy reading, even in low light conditions.
- **Energy Saving:** Features automatic power-off after 7 seconds of inactivity.
- **Multifunctional:** Capable of measuring body, ear, forehead, ambient, object, food, and liquid temperatures.
- **Memory Function:** Stores up to 32 measurement data points for temperature history tracking.

2. Setup

2.1. Battery Installation

The CEM DT-8806H thermometer requires batteries for operation. A battery is included with the product.

1. Locate the battery compartment cover on the handle of the thermometer.
2. Slide or open the cover according to the indicator.
3. Insert the batteries, ensuring correct polarity (+ and -) as indicated inside the compartment.
4. Close the battery compartment cover securely.

Note: Always use the specified battery type and dispose of old batteries responsibly.

2.2. Initial Power-On

After installing the batteries, the thermometer is ready for use.

1. Press the measurement trigger button to power on the device.
2. The LCD display will illuminate and show the last measurement or enter standby mode.

3. Operating Instructions

The DT-8806H offers two primary measurement modes: Body mode and Surface mode.

Figure 2: Side view of the thermometer, highlighting the mode switch for Body and Surface measurements.

3.1. Switching Measurement Modes

To switch between Body and Surface measurement modes, locate the mode switch on the side of the thermometer.

- Slide the switch to the **"Body"** position for human body temperature measurements.
- Slide the switch to the **"Surface"** position for measuring the temperature of objects, liquids, or ambient air.

3.2. Measuring Body Temperature (Body Mode)

1. Ensure the thermometer is in **"Body"** mode.
2. Point the thermometer at the center of the forehead, maintaining a distance of 5-15 cm (2-6 inches).
3. Press the measurement trigger button.
4. The temperature reading will be displayed on the LCD screen within 0.5 seconds.
5. The thermometer will automatically store the reading in its memory.

Important: For consistent readings, ensure the measurement distance is maintained. If a person has just entered from

outdoors, wait approximately 10 minutes for their body temperature to stabilize before measuring.

3.3. Measuring Object/Surface Temperature (Surface Mode)

1. Ensure the thermometer is in **"Surface"** mode.
2. Point the thermometer at the object or surface you wish to measure.
3. Press the measurement trigger button.
4. The temperature reading will be displayed on the LCD screen.

This mode is suitable for measuring temperatures of milk, bath water, room air, food, and other non-living objects.

3.4. Memory Function

The thermometer automatically stores the last 32 temperature measurements. To recall past readings, refer to the device's specific button functions (usually a "MEM" or "LOG" button, though not explicitly detailed in input, common for such devices).

4. Maintenance

4.1. Cleaning the Thermometer

To ensure accurate readings and hygienic use, regularly clean your thermometer.

- Wipe the thermometer body with a soft, damp cloth.
- For the sensor lens, use a cotton swab lightly moistened with alcohol. Clean gently to avoid scratching.
- Do not immerse the thermometer in water or any other liquid.
- Do not use abrasive cleaners or solvents.

4.2. Storage

Store the thermometer in a cool, dry place, away from direct sunlight, extreme temperatures, and humidity. Keep it out of reach of children.

5. Troubleshooting

This section addresses common issues you might encounter with your CEM DT-8806H thermometer.

5.1. Inconsistent Measurements

Problem: Measurements are always different when taken in quick succession.
Possible Causes & Solutions:

- **Natural Skin Temperature Changes:** Human skin temperature can fluctuate.
- **Measurement Distance Variation:** Ensure a consistent distance of 5-15 cm from the forehead.
- **Air Temperature Changes:** Significant changes in ambient air temperature can affect readings.
- **Environmental Acclimatization:** If a person has just come indoors from a different temperature environment, wait approximately 10 minutes for their body temperature to stabilize before measuring.
- **Alternative Measurement Sites:** For comparison or if forehead readings are consistently problematic, try measuring behind the ear, in the mouth, or under the armpit with a standard clinical thermometer (if applicable for comparison, though this is a non-contact device).

5.2. Incorrect Temperature Readings (e.g., always 95°F / 35°C)

Problem: The thermometer consistently displays an incorrect or fixed temperature, such as 95°F (35°C).

Possible Cause & Solution:

- **Incorrect Measurement Mode:** Ensure the thermometer is set to the correct mode for your intended measurement.
  - For human body temperature, the mode switch must be set to **"Body"**.
  - For object or liquid temperatures (e.g., milk, bath water), the mode switch must be set to **'Surface"**.

6. Specifications

Specification	Value
Brand	CEM
Model Number	DT-8806H
Measurement Type	Non-Contact Infrared
Measurement Distance	5-15 cm
Measurement Time	0.5 seconds
Accuracy (Body Mode)	±0.2 °C (within 36-39 °C)
Display Type	Digital LCD
Memory Storage	32 measurements
Power Source	Battery Powered
Automatic Shut-off	7 seconds (without operation)
Certifications	ISO 13485, CE, FCC, ROHS, FDA, EN 60601-1.2006+ A12:2014, EN 60601-1-2:2015
Item Weight	310 g
Material	Plastic

7. Warranty and Support

7.1. Warranty Information

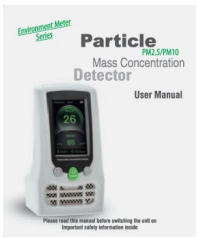
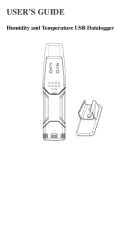
Please refer to the warranty card included with your product packaging for detailed warranty terms and conditions. Typically, CEM products come with a manufacturer's warranty covering defects in materials and workmanship from the date of purchase.

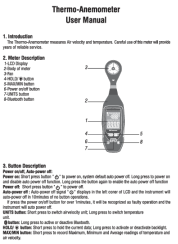
7.2. Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact CEM customer support. Contact information can usually be found on the product packaging, the official CEM website, or the retailer's support page.

Note: Always provide your product model number (DT-8806H) and purchase details when contacting support.

Related Documents - DT-8806H

	Manuel d'utilisation du thermomètre médical infrarouge sans contact DT-8806H Manuel d'utilisation complet pour le thermomètre médical infrarouge sans contact DT-8806H. Ce document fournit des informations détaillées sur la description générale, la sécurité, les caractéristiques, l'utilisation, les mesures, le dépannage, les spécifications techniques, la conformité CEM, la classification et l'élimination du produit.
	CEM DT-612 Digital Thermometer - Technical Specifications and Features Detailed information on the CEM DT-612 digital thermometer, including its electrical and environmental specifications, features, and accessories. This portable device uses K-type thermocouples for accurate temperature measurements.
	CEM Coating Thickness Gauge Pro DT-156H User Manual Comprehensive user manual for the CEM Coating Thickness Gauge Pro (DT-156H). Covers general information, features, specifications, operation, calibration, settings, troubleshooting, and more.
	CEM DT-9680 Particle Mass Concentration Detector User Manual User manual for the CEM DT-9680 Air Quality Detector. Learn about its features, specifications, operation, settings, and air quality standards for detecting PM2.5, PM10, CO2, HCHO, and TVOC.
	CEM DT-171 Humidity and Temperature USB Datalogger User Guide Comprehensive user guide for the CEM DT-171 Humidity and Temperature USB Datalogger. Details features, specifications, LED status indicators, battery replacement, and sensor reconditioning procedures.



Thermo-Anemometer
User Manual

1. Introduction
The Thermo-Anemometer measures Air velocity and temperature. Careful use of this meter will provide years of reliable service.

2. Meter Description
1-LCD Display
2-Body of meter
3-Fan
4-HOLD/ ⏻ button
5-MAX/MIN button
6-Power on/off button
7-UNITS button
8-Bluetooth button

3. Button Description
Power on/off, Auto power off:
Power on: Short press button "⏻" to power on, system default auto power off. Long press to power on and disable auto power off function. Short press button again to enable the auto power off function
Power off: Short press button "⏻" to power off.
Auto power off: Auto power off Signal "⏻" displays in the left corner of LCD and the instrument will power off automatically after 10 minutes of inactivity.
If press the power on/off button for over 1minutes, it will be recognized as faulty operation and the instrument will auto power off.
UNITS button: Short press to switch air velocity unit; Long press to switch temperature unit.
⏻ button: Long press to active or deactive Bluetooth.
HOLD/ ⏻ button: Short press to hold the current data; Long press to activate or deactivate backlight.
MAX/MIN button: Short press to record Maximum, Minimum and Average readings of temperature and air velocity.

[CEM DT-90 Thermo-Anemometer User Manual - Air Velocity & Temperature Measurement]

Detailed user manual for the CEM DT-90 Thermo-Anemometer. Learn about its features, specifications, operation, and maintenance for accurate air velocity and temperature measurements.