

# DIGITAL COMPACT THERMOMETER

1671

**BIOS**  
*Diagnostics™*



Thank you for your purchase of this thermometer. To correctly utilize all the advantages of this product, you should familiarize yourself with these operating instructions before using the thermometer the first time. Keep these instructions in a safe place for future reference.

## SPECIAL FEATURES

- **Automatic self-test:** guarantees a specified measuring accuracy for each temperature reading! «ERR»-(error) is immediately indicated if any deviation is registered.
- **Temperature measurement** within 60-90 seconds depending on measuring method used.
- **Digital display** for temperature changes as minor as 0.1°C / 0.1°F.
- **Automatic switch off:** after approx. 10 minutes – for longer battery life.
- **Battery:** Silver oxide high drain. (Non disposable)

## IMPORTANT SAFETY INSTRUCTIONS

- The thermometer is suitable exclusively for measurement of body temperature
- The battery cover is sonic-welded with the main housing of the thermometer; the battery is well sealed inside the thermometer to reduce the risk of being swallowed by children.
- Protect the thermometer from hitting and striking.
- Avoid ambient temperatures above 60°C / 140°F. NEVER boil the thermometer!
- Use only the commercial disinfectants listed in the section «cleaning and disinfecting» to clean the thermometer. The thermometer must be intact when immersed in liquid disinfectant.
- **Warning:** The thermometer contains a long-life battery. For disposal, please comply with local regulations for special waste.
- The manufacturer recommends to verify the accuracy by an authorized laboratory every 2 years.

## TURNING ON THE THERMOMETER

To turn on the thermometer, push the button on the top; the display test is performed. Then at an ambient temperature of less than 32°C / 89.6°F, an «L» and a flashing «°C/°F» appear at the upper right of the display. The thermometer is now ready to use.

## FUNCTION TEST

Proper functioning of the thermometer is tested automatically each time it is turned on. If a malfunction is detected (measurement inaccuracy), this is indicated by «ERR» on the display, and a measurement becomes impossible. In this case, the thermometer must be replaced.

## USING THE THERMOMETER

During a measurement, the current temperature is displayed continuously. The «°C/°F» symbol flashes during this period of time. If the «°C/°F» is no longer flashing, this means that the measured increase in temperature is now less than 0.1°C / 0.2°F in 16 seconds and that the thermometer is ready for reading.

To prolong the life of the battery, turn it off after use by pressing the operating button briefly. Otherwise the thermometer will automatically turn off after about 10 minutes.

## STORAGE OF MEASURED VALUES

If you hold the button down for more than 3 seconds when turning the thermometer on, the maximum temperature stored automatically at the last measurement will be displayed. At the same time, a small «M» for memory will appear at the right of the display. After 3 more seconds, this value will disappear and the thermometer will switch to the normal measurement mode. Then the stored value is erased.

## SWITCHING °C / °F

Press the button to turn the thermometer ON. The last measurement will display as mentioned in "Storage of Measured Values" above. Once the «M» disappears and before «°C/°F» start to flash, press the button again and you can toggle between °C or °F.

## MEASURING METHODS

### In the mouth (oral)

Position the thermometer in one of the two pockets under the tongue, to the left or right of the root of the tongue. The measuring sensor must be in good contact with the tissue. Close your mouth and breath evenly through the nose to prevent the measurement from being influenced by inhaled/exhaled air.

Approx. measuring time: 1 minute.

### In the anus (rectal)

This is the most reliable measuring method, and is especially appropriate for infants and small children. Carefully insert the tip of the thermometer 2 to 3 cm into the anal aperture.

Approx. measuring time: 1 minute.

### In the armpit (axillary)

From a medical viewpoint, this method will always provide inaccurate readings, and should not be used if precise measurements are required.

Approx. measuring time: 5 to 10 minutes.

### CLEANING AND DISINFECTING

The thermometer is 100% waterproof and may be immersed in water or disinfectant solution, then wipe it off with a moist towel. Please use one of the following disinfectants for cleaning, following the manufacturer's instructions in each case.

Name of Disinfectant	Dilution with Water	Max. Duration Method
Isopropyl alcohol 70%	95.0%	Immerse for 24 hours

**Note: Any other cleaning solution, dilution or cleaning method can cause a malfunction of the thermometer. The thermometer must never be boiled.**

### BATTERY DISPOSAL

Please break the end cap from the main body with a pair of pliers. Remove the battery and the PC board from the plastic housing and dispose of separately. Battery cannot be replaced.

### TECHNICAL SPECIFICATIONS

<b>Type</b>	Maximum thermometer
<b>Measurement range:</b>	32.0°C to 43.9°C / 89.6°F to 111°F Temp. < 32.0°C / 89.6°F; display «L» for low (too low) Temp. > 43.9°C / 111°F; display «H» for low (too high)
<b>Measurement accuracy</b>	±0.1°C / 0.2°F between 34°C / 93.2°F and 42°C / 107.6°F at an ambient temperature of 18°C / 64.4°F to 28°C / 82.4°F
<b>Self-test</b>	Automatic internal check at a test value of 37.0°C / 98.6°F; if there is a deviation of >0.1°C / 0.2°F, «ERR» (error) is displayed.
<b>Display</b>	Liquid crystal display (LCD) with three digits Smallest unit of display: 0.1°C / 0.1°F
<b>Memory</b>	For storing the last measured value
<b>Operating environment</b>	10°C to 40°C / 50°F to 104°F
<b>Storage temperature</b>	-25°C to 60°C / -13°F to 140°F
<b>Storage humidity</b>	15% to 95% (noncondensing)
<b>Battery</b>	IEC type SR41 Silver oxide high drain
<b>Reference to standards</b>	EN12470-3, clinical thermometers ASTM E 1112, IEC 60601-1, IEC 60601-1-2

### TWO YEAR WARRANTY

If this product proves to be defective in material or workmanship within two years of purchase, it will be repaired or replaced without charge upon receipt of the unit prepaid with \$5.00 to cover handling, packaging and return postage to the address below. Please include your full name, address and daytime phone number or email address.

If you have any questions regarding the operation of your thermometer please call the bilingual Help Line: 1-866-536-2289.



Read the instructions carefully before using this device



Type BF applied part

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