

Thank you for purchasing a BIOS Diagnostics™ Fever Thermometer. To correctly utilize all the advantages of this product, please familiarize yourself with these operating instructions before using the thermometer for the first time. Keep the instructions in a safe place for future reference.



INDICATIONS FOR USE:

This digital thermometer (1671) is intended to measure the human body's temperature in regular mode, orally, rectally or under the arm. This device was designed to be reusable for clinical or home use, on people of all ages.

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 approximately 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 & 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.
- **DO NOT** use the device if you think it is damaged or if anything appears unusual.
- Ensure that children do not use this device unsupervised; some parts are small enough to be swallowed.
- The manufacturer recommends verifying the thermometers accuracy with an authorized laboratory every 2 years.
- **DO NOT** store the unit under direct sunlight, at a high temperature, or in high humidity or dust. Performance may be degraded.
- Using the unit in the immediate vicinity of mobile phones, microwave appliances or other devices with strong electromagnetic fields may result in impaired functioning.
- Batteries and electronic instruments must be disposed of in accordance with the locally applicable regulations, and not as domestic waste.
- **DO NOT** use this device close to strong electromagnetic fields, such as mobile telephones or radio installations. Keep a distance from such devices when using this unit.

HOW TO TAKE A TEMPERATURE

1. Select Oral, Axillary (Underarm) or Rectal as your measurement site based on each individual. Clean thermometer with soap and water prior to use.
2. Push the **ON/OFF** button on the top of the thermometer; the display will read:  This is a function check indicating that the thermometer is working properly.
NOTE: 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.
3. After the function check, a temperature measurement will appear if there is a reading in the memory. Immediately after «L»C» with the °C/°F flashing and «M» are gone, the thermometer is ready for use.
4. While taking a temperature, the °C/°F flashes as long as the temperature increases. 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 to read.
NOTE: The display will read «L» if the measurement taken is below 32.0°C/89.6°F. It will display «H» if the measurement is above 43.9°C/111°F.
5. To prolong the life of the battery, turn the thermometer off after each use by pressing the **ON/OFF** button briefly, otherwise the thermometer will turn off after about 10 minutes.

SWITCHING °C / °F

With the thermometer turned off, press and hold the **ON/OFF** button for around 4 seconds until «C» or «F» flashes. Now press the **ON/OFF** button to switch between °C/°F. Release button when the desired indicator is chosen and wait for the thermometer to transition into measurement mode. The thermometer is now set to your selection for future use.

MEASURING METHODS

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 have good contact with the tissue. Close your mouth and breathe evenly through the nose to prevent the measurement from being influenced by inhaled/exhaled air.
Approximate measuring time: 1 minute.

Rectal
This is the most reliable measuring method, and is especially appropriate for infants and small children. Lubricate the thermometer with a water-soluble personal lubricant or petroleum jelly. Carefully insert the tip of the thermometer no more than 1/2 inch or 1.3 cm into the rectum.
Do not force the tip into the rectum if resistance is encountered.
Approximate measuring time: 1 minute.

Axillary (Underarm)
From a medical viewpoint, this method produces the least accurate readings, and should not be used if precise measurements are required.
Approximate measuring time: 5 to 10 minutes.

MEMORY RECALL

When turning on the thermometer, the last measurement will be displayed with a «M» for memory. After 3 more seconds, this value will disappear and the thermometer will switch to the normal measurement mode. Then the stored value is erased.

CLEANING AND DISINFECTING

The thermometer is 100% waterproof and may be immersed in water or disinfectant solution, then wiped off with a moist towel. Please use the following disinfectant type for cleaning, following the manufacturer's instructions. Clean the thermometer before and after each use.

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

Type	Maximum thermometer
Measurement range	32.0°C to 43.9°C/90.0°F to 109.9°F Temp. < 32.0°C/90.0°F; display «L» for low (too low) Temp. > 43.9°C/109.9°F; display «H» for low (too high)
Measurement accuracy	±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
Self-test	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.
Display	Liquid crystal display (LCD) with three digits Smallest unit of display: 0.1°C / 0.1°F
Memory	For storing the last measured value
Operating environment	10°C to 40°C/50°F to 104°F
Storage temperature	-25°C to 60°C/-13°F to 140°F
Storage humidity	15% to 95% (noncondensing)
Battery	LR41 (non-replaceable)
Battery lifetime	Approx.4500 measurements
Reference to standards	ISO 80601-2-56 ASTM E 1112, IEC 60601-1, IEC 60601-1-2, IEC 60601-1-11

LIMITED 2 YEAR WARRANTY:

This BIOS Diagnostics™ Fever Thermometer has a limited 2 year warranty to be free of manufacturing defects for the original owner. The warranty does not cover damage from misuse or tampering.

100% Satisfaction Guarantee

If at any time, you are not completely satisfied with the performance of this device, call our BIOS Medical Hotline and speak with a customer service representative, who will make arrangements to have the device tested or replaced to your full satisfaction.

If you have questions regarding the operation of your monitor call the **BIOS Medical Hotline: 1-866-517-2970.**

Should correction be necessary, return the unit with all component pieces. Enclose proof of purchase and \$5.00 for return shipping and insurance. Ship the unit **prepaid** and insured (at owners option) to:

Thermor Ltd
Returns Department
16975 Leslie Street
Newmarket, ON L3Y 9A1
www.biosmedical.com
Phone: 1-866-517-2970.
Email: support@biosmedical.com

Please include your name, return address, phone number, and email address. BIOS Medical will test or replace (at Thermor's option) free of charge any parts necessary to correct the defect in material or workmanship.

Please allow 10 days for return shipping.

-  Type BF applied part
-  Batteries and electronic devices must be disposed of in accordance with the locally applicable regulations, not with domestic waste.
-  Follow Instructions for Use. This document provides important product operation and safety information. Please read this document thoroughly before using the device and keep for future reference.

IP67: Totally protected against dust ingress, protected against the effect of immersion in water between 15cm and 1m.