

Adtemp™ ULTRA 417 Digital Fever Thermometer

USE, CARE &
MAINTENANCE



ADC
AMERICAN DIAGNOSTIC CORPORATION

Intended Use:

A digital thermometer is a device used to measure the body temperature of a patient by means of a transducer coupled with an electric signal amplification, conditioning, and display unit.

Safety Information:

- High, prolonged fever requires medical attention especially for young children. Please contact your physician.
- Do not allow children to take their temperatures unattended.
- Read the enclosed instructions carefully to ensure accurate temperature readings. Temperature readings are affected by many factors including exercise, drinking hot or cold beverages prior to taking a reading as well as technique.
- Do not allow children to walk or run during temperature taking. The probe could present a hazard.
- **WARNING:** Keep battery out of children's reach. Swallowing battery could be harmful. Battery should not be recharged or placed into extreme heat as it may explode.
- **CAUTION:** Do not take an axillary temperature through patient's clothing. Direct probe cover to skin contact is required.
- **CAUTION:** Biting the probe tip while taking a temperature may result in damage to the probe.
- **CAUTION:** Do not autoclave or immerse thermometer in water or any other liquid. The unit is not waterproof. Please note the cleaning procedures described in this manual.

How to take temperature:

- It is recommended that for 15 minutes prior to use, to avoid eating or drinking, exercising, taking a shower or bath, or smoking.
- If the thermometer has been stored at a very low or very high temperature, allow the unit to adjust naturally to room temperature before using.
- Wait at least 1 minute between consecutive measurements for the unit to readjust to room temperature.
- Place a probe cover carefully over the tip (Figure 1). Select oral, underarm or rectal as your measurement site based on the individual requiring a temperature measurement.



Figure 1

Operating the 2 second digital thermometer:

For first use: Remove the protective case from probe tip and the LCD protective sticker.

1. **Turn the unit on by pressing the Multi-Function button,  a short beep will follow.**

Wait 2 seconds for the unit to get ready. During these 2 seconds the following sequence will be displayed on the LCD:

A: All display icons will appear.

B: The display will show last measurement.

C: The hourglass will disappear and the display will show the scale and mode icons. This will indicate the thermometer is now ready for measurement.



A



B



C

2. **Select your preferred measurement location**

(oral/ rectal/ underarm) by using the Mode button.



Oral



Rectal



Axillary

3. **Place the probe tip at the desired location.**

The temperature reading will be displayed within 2 seconds. One long beep will indicate that the measurement is completed.

• If you want to take another measurement, turn off the thermometer and wait 1 minute between consecutive measurements to allow the unit to readjust to room temperature.

Please Note:

Oral use: (for children 4 years and older)

1. Do not drink hot or cold fluids, exercise or perform other activities that will raise or lower temperature readings when compared to your normal, average temperature. The mouth should remain closed and sit still to help ensure an accurate measurement.

2. Place the probe tip well under the tongue as indicated (Figure 2).



Figure 2

3. Instruct children not to bite down on the probe.
4. The peak temperature should be reached in approximately 2 seconds. Opening the mouth or improper placement of the probe tip could result in a longer time for a reading.

Rectal use:

1. Commonly used for babies, young children or when it is difficult to take an oral or underarm temperature.
2. After placing the probe cover on the thermometer, lubricate with a water-soluble jelly or petroleum jelly.
3. Gently insert the probe tip 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.
4. Dispose of the used probe cover and wash the thermometer as recommended.
5. The peak temperature should be reached in approximately 2 seconds.

Underarm (Axillary) use:

1. Wipe underarm with a dry towel.
2. Place probe tip in armpit and bring arm down against the body.
3. The probe should be pointing upward in the same direction as your body if possible.
4. The time required for an accurate underarm temperature may be 2 seconds or longer depending on placement of the probe and closure of the arm against the body.

Dual Color Display:

- In case the device detects a high heat flow from the patient's body— the LCD backlight color will turn red. Otherwise, the LCD backlight color will display a green light.
- The LCD backlight color is an additional alert to the displayed temperature.

WARNING! A high temperature requires immediate medical attention.

Turning The Unit Off:

Turn the thermometer off by pressing the Multi-Function button. If you forget to turn it off, the thermometer will automatically turn off after 1 minute.

Operation of the °F - °C feature: (How to change the measuring scale)

1. With the thermometer OFF, press simultaneously on the Mode button and on the Multi-Function button until you see the scale alternate.
2. Release both buttons and wait 5 seconds. The correct scale and the mode icon will appear, indicating the unit is ready to measure.

Troubleshooting and special indications:

The thermometer has been designed to display feedback-warnings to ensure proper usage and accurate temperature measurement. In the event of a malfunction or incorrect temperature measurement, the following warnings will be displayed:



Display: Flickering LO (unit will beep 7 times):

Indication: The measured temperature is below 95°F (35°C):

1. Turn the unit OFF, wait 1 minute and then turn ON again.
2. Retake temperature using proper technique while ensuring normal room temperature (between 73°F - 77°F / 23°C - 25°C).
3. If unit still reads LO, this indicates that the patient has low body temperature.

WARNING! A low body temperature requires immediate medical attention.



Display: Flickering HI (unit will beep 7 times):

Indication: The measured temperature is above 107.6°F (42°C):

1. Turn the unit OFF, wait 1 minute and then turn ON again.
2. Retake temperature using proper technique.
3. If unit still reads HI, this indicates that the patient has an extremely high temperature.

WARNING! A high temperature requires immediate medical attention.



Display: Er 1 (unit will beep 5 times and power off automatically):

Indication: The thermometer is too cold or too hot to operate:

1. Verify room temperature is within product range 60.8°F-104°F (16° C - 40° C).
2. Wait 1 minute, retake temperature using proper technique.



Display: Er 2 (unit will beep 5 times and power off automatically):

Indication: Temperature did not register because of poor contact, patient movement or poor placement.

1. Turn the unit OFF, wait 1 minute, turn it ON again and retake temperature using proper technique. (See Operating Instructions.)



Display: Er 3 (unit will beep 5 times and power off automatically):

Indication: Unit malfunctioned.

1. Do not use the thermometer – contact Customer Service. (See last page.)



Display: Flickering battery (after displaying the last temperature measurement)

Indication: Low battery.

1. The battery has enough remaining life for approximately 10 more measurements. It is recommended to replace the battery as soon as possible.



Display: Battery icon is on (unit will beep 5 times and power off automatically)

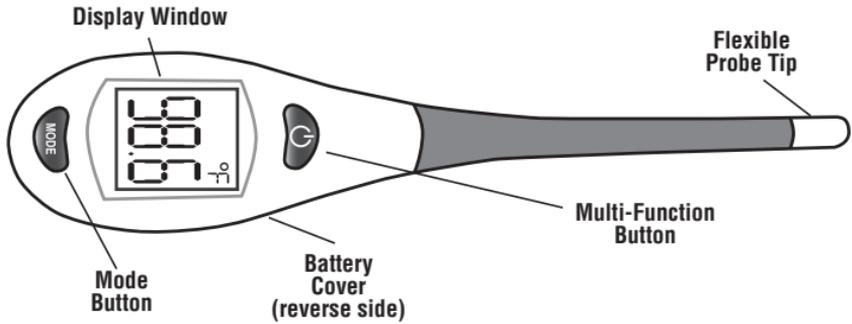
Indication: Drained battery.

1. The battery is drained – replace battery. (See below on Replacing Batteries.)

Care and Maintenance:

- Wipe the tip and probe with an alcohol swab or a cotton swab moistened with 70% isopropyl alcohol before and after each use. After cleaning, wait at least 2 minutes before taking a measurement for the unit to readjust to room temperature.
- Use only a soft dry cloth to clean the body of the thermometer (if necessary). Never use an abrasive cleanser or submerge the thermometer in water or other liquids.
- Do not expose the thermometer to extreme temperatures, humidity, direct sunlight or shock.
- Store at room temperature.

Parts and Assembly



Installing and replacing the Batteries:

The thermometer uses one 2032Li 3V Coin Battery.

To install/replace, first switch OFF the device:

1. Remove the battery cover by sliding it up.
2. Press the latch holding the battery to remove it from the housing.
3. Firmly attach the battery to its place; make sure polarity is correct (positive (+) side up).
4. Slide the battery cover back into place. Make sure the latch is firmly closed.

IMPORTANT: It is recommended you remove the battery from the thermometer when it will not be used for a long period of time.

WARNING: Do not dispose of batteries in fire, recharge, put in backwards, disassemble, or mix with used or other battery types – they may explode or leak and cause injury. Waste batteries should be disposed of in accordance with local or national environmental regulations.

Specifications

Size:	5"L x 3/4"W x 3/8"H (12.7cm L x 1.905cm W x .9525cm H)
Weight:	0.4903 oz. (13.90 gr) including battery
Display:	LCD, Liquid Crystal Display - 15.9*18.6mm
Battery:	2032Li 3V Coin Battery
Battery Life:	Minimum 1000 full duty cycles over a 24 month period
Measurement Time:	Oral 2* Seconds / Rectal 2 Seconds / Axillary 2 Seconds
Measurement Range:	95°F - 107.6°F (35°C - 42°C)
Accuracy:	+/- 0.1°C/0.2°F between 37°C - 39°C /98.6°F - 102.2°F
Measurement Mode:	Predictive measurement
Audible Alarm:	1 beep at start-up. Continuous beep at measurement completion
Auto Turn Off:	60 seconds
Memory Feature:	Stores last temperature taken
Operation Environment:	60.8°F - 104°F (16°C - 40°C) Humidity: 15-95% (noncondensing)
Storage Environment:	-4°F - 122°F (-20°C - 50°C) Humidity: 15-95% (noncondensing)
Standards:	Complies with ASTM E1112-00(2011) standard requirements *2 second response time achieved in water bath test.

THE FCC WANTS YOU TO KNOW...

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or to television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- A) Reorient or relocate the receiving antenna
- B) Increase the separation between the equipment and receiver
- C) Connect the equipment to an outlet on a different circuit from the one the receiver is connected to
- D) Consult the dealer or an experienced radio/TV technician

WARRANTY: This Thermometer is guaranteed for a period of 24 months from date of purchase. This warranty does not cover batteries, or damage resulting from improper handling or use. Specific legal rights stipulated in your state may guide this warranty. If you have a legitimate claim under this warranty, send item(s) postage paid to Service Center, Attn: Repair Dept., 55 Commerce Dr., Hauppauge, NY 11788. Please include your name and address, phone no., proof of purchase, a brief note explaining the problem, and your return address.



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Read the instructions carefully
before using this device.



Type BF applied part

Protected by US patent #6,280,397 B1
and other pending patents