Adtemp™ Mini 432 Non-Contact Infrared Thermometer

Instructions for Use

Mountain View Medical Supply
5076 W. 58th Ave.
303-455-1300
800-873-7121
MVMSinc.com

AMERICAN DIAGNOSTIC CORPORATION

ADC® Adtemp™ Mini Non-Contact Infrared Thermometer

Thank you for choosing an ADC® Adtemp™ Mini Non-Contact Infrared Thermometer. Your new thermometer is designed to provide accurate body temperature measurements. Adtemp thermometers meet or exceed all relevant international performance standards.

Device Description and Intended Use

The Adtemp 432 Non-Contact Thermometer is a clinical grade device intended for the intermittent measurement of human body temperature in patients of all ages.
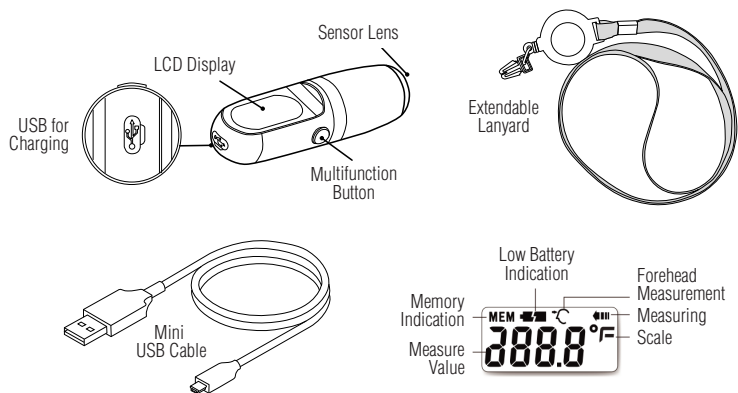
Contraindications:

Do not use on scarred or compromised tissues.
Do not use with patients in trauma or those being treated with medications that affect skin temperature.
Do not use when the measuring site has been exposed to direct sunlight or extreme temperatures.

Parts and Assembly:

Symbol Definitions

The following symbols are associated with your thermometer.

Symbol	Definition
⚠	Important warning/caution
(LATEX)	Not made with natural rubber latex
(PHT)	Phthalate free
☂	Keep dry
🌐	Operating instructions
▲	Manufacturer's information
EC REP	Authorized European representative's information
OFF	Device is off

Symbol	Definition
CE 0197	Meets essential requirements of European Medical Device Directive 93/42/EEC
LOT	Lot number
⏻	Multifunction button
☺	Measurement in progress/complete
°C	Forehead
◀III	Measuring
M	Memory indication
◀▬	Low battery indication

General Warnings ⚠

A warning statement in this manual identifies a condition or practice which, if not corrected or discontinued immediately, could lead to patient injury, illness, or death. The thermometer is safe for patient and clinicians when used in accordance with the instructions and with the warning and caution statements in this manual. Before using the thermometer, familiarize all operating personnel with the general safety instructions provided in this manual.

⚠ **WARNING:** The thermometer is designed for the intermittent measurement of the human body's temperature and can be used upon people of all ages. The following recommendations must be carefully observed during the product's use. Any activities that are inconsistent with or do not take into account these recommendations, could result in personal injury or could affect the accuracy of the thermometer.

⚠ **WARNING:** Stop using the device if malfunctions appear or if it operates abnormally.

⚠ **WARNING:** Components may be harmful if swallowed. Keep out of reach of unsupervised children.

⚠ **WARNING:** Some medications may cause a rise in skin temperature which can consequently lead to incorrect measurements.

3

⚠ **WARNING:** Only use the thermometer indoors. Do not use this device close to strong electromagnetic fields, such as mobile phones.

⚠ **CAUTION:** Proper measurement distance between 1 cm and 2 cm from the patient's forehead is essential to the accuracy of the temperature measurement determined.

⚠ **CAUTION:** Unauthorized modifications to the device are not permitted. Do not modify the product in any way without the manufacturer's prior authorization.

⚠ **CAUTION:** In order to avoid incorrect measurements, make sure that the thermometer's infrared sensor lens is clean and intact prior to use. Avoid touching the infrared sensor lens directly with your fingers.

⚠ **CAUTION:** Do not expose the thermometer to extreme temperatures or humidity levels. Do not expose to direct sunlight.

⚠ **CAUTION:** The thermometer is NOT waterproof.

⚠ **CAUTION:** Avoid dropping the device.

⚠ **CAUTION:** Do not autoclave or clean with chemical solvents. Follow only the cleaning procedures described in this manual.

⚠ **CAUTION:** Avoid taking temperature measurements for at least 30 minutes after physical activity, bathing, swimming, consuming food or beverages, or spending time outdoors.

⚠ **CAUTION:** Avoid pointing the infrared sensor at any heat source other than a patient. This might affect patient measurement.

⚠ **CAUTION:** If possible, measurements should always be taken by pointing the infrared sensor at the same area of the forehead. Temperature measurement at different locations on the temples or on opposite sides of the head can vary considerably.

⚠ **CAUTION:** Holding the thermometer in your hands for too long or exposing the device to external head sources could result in distorted temperature readings. For this reason, the body temperature reading could result as being higher or lower than the actual value.

⚠ **CAUTION:** Dispose of the device and battery in accordance with locally applicable regulations.

⚠ **CAUTION:** The device is not intended for field-based emergency medical use.

⚠ **CAUTION:** For maximal performance of the device, we recommend a calibration check every two years.

Changing the Measurement Scale

1. Press and release the multifunction button to turn on.
2. While self-check screen is displayed, press and hold the multifunction button. When °C or °F mode has changed, release the button.
3. Thermometer will switch to measurement mode in about two seconds.

```
 CH  °C

 CH  °F
```

How to Use

NOTE: Charge thermometer for two hours before first use.

1. Clean the unit before using.
2. Make sure the site is clean and dry prior to taking measurement.
3. Press and release the multifunction button to turn on. You will hear a short beep and the unit will perform a self check. A second beep will indicate that the unit is ready to use.
4. Aim probe at the measuring site at a distance of 1-2 cm.
5. Press the multifunction button to take measurement.
6. When measurement is complete, the unit will beep twice and the color-coded temperature will flash briefly (see Figure 1).
7. The display will return to white and a smiley face icon will appear. You can now begin another measurement, if needed.
8. The unit will power off automatically in about 10 seconds.

0.3 - 0.7 in
(1-2 cm)
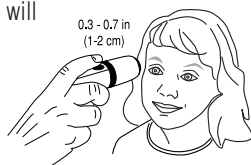
Temperature (°F)	Beeps	Color Coding
T ≤ 98.9	2	Green
99 ≤ T ≤ 99.4	2	Yellow
T ≥ 99.5	2	Red

Figure 1

Memory Function

The unit retains the last nine readings.
To recall previous readings:

1. While the unit is off, press and hold the multifunction button for about three seconds, until the unit enters memory mode.
2. Release the button. The reading number will appear first, then the corresponding measurement value. These numbers will toggle three times.
3. Press and release the multifunction button again to recall each earlier reading.
4. The unit will switch to measurement mode about three seconds after the last button push.

5

To delete all readings in memory:

1. While in memory mode, press and hold the multifunction button for about three seconds, until the "del" code appears on the display.
2. Release the button.
3. Press and release the multifunction button once more to confirm deletion. All readings will be deleted and the unit will power off.

Charging the Battery

⚠ *Charge the unit when the low-battery indication appears.*

⚠ *Do not dispose of the battery in a fire. The battery may explode.*

1. When the low-battery indication shows, charge it via micro USB cable.
2. During charging, the low-battery icon lights with yellow; once charging is completed, the low-battery icon lights with green.
3. Unplug when charging is complete.

USB for
Charging
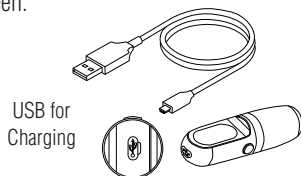
Cleaning and Disinfecting

The thermometer can be cleaned, and an intermediate level of disinfection can be achieved using the following method.

CAUTION: Never use abrasive cleaning agents, thinners, or benzene for cleaning and never immerse the instrument in water or other cleaning liquids.

CAUTION: Never insert a sharp object into the sensor lens area or any other open surface on the thermometer.

CAUTION: Do not use unapproved cleaning or disinfection agents. Use of these agents may cause damage to components.

CAUTION: Do not use chemicals other than isopropyl or ethyl alcohol on the sensor lens.

Cleaning the sensor lens

Slightly moisten a cotton swab or cloth with isopropyl or ethyl alcohol and gently wipe the surface of the sensor lens using a side-to-side (not circular) motion. Avoid touching the sensor lens except when cleaning is required.

Cleaning the thermometer
Use a pre-moistened wipe or cloth slightly moistened with an approved cleaner to gently clean the thermometer.

Disinfecting the thermometer
Use a pre-moistened wipe or cloth slightly moistened with an approved disinfectant to disinfect the thermometer. After cleaning or disinfecting, wait at least 10 minutes before taking another measurement. Follow the manufacturer's recommendations.

Calibration Testing
The thermometer is calibrated at the time of manufacture. If the thermometer is operating according to these instructions, periodic readjustment is not required. ADC recommends checking calibration every two years or whenever clinical accuracy of the thermometer is in question. ADC can perform these tests for a nominal fee.

Care and Storage
- Do not drop or crush; this device is not shock proof.
- Do not dismantle or modify device.
- Do not store the device in an extreme environment with direct sunlight or high/low temperatures, or in a location with high humidity or severe dust.

Trouble Shooting and Error Messages

H	The reading is higher than measuring range, please repeat the measurement.
L	The reading is lower than measuring range, please repeat the measurement.
Erl	Out of operating condition.
Err	Device self-diagnostic error, please contact customer service.
▬◢▬	Low battery indication, please charge it via USB cable.

Specifications

Measuring Site: Forehead	
Measuring Distance:	0.3937 in (1 cm)
Measuring Time:	1 second
Measuring Range:	71.6°F to 109.9°F (22.0°C to 43.3°C)
Accuracy:	96.8°F to 102.2°F ±0.4°F (36°C to 39°C)
Measuring Unit:	Dual (°F / °C)
Resolution:	0.1°F
Memory Sets:	9 sets
Operating Conditions:	60.8°F to 104°F, 15 to 95% RH
Storage Conditions:	-4°F to 131°F, 15 to 95% RH
Battery:	Rechargeable Lithium Ion battery
Battery Life:	At least 300,000 measurements within warranty
Auto Shut Off:	After 10 seconds of inactivity
Dimensions:	3.48"x 1.02" x 1.02" (88.5mm x 26mm x 26mm)
Weight:	Approximately 1.59 oz (including battery)
Standards:	ISO 13485, IEC 62133, UN 38.3, ASTM E1965, EN 12470-5, IEC 60601-1, IEC 60601-1-2

Limited Warranty

ADC® warrants its products against defects in materials and workmanship under normal use and service as follows:

1. Warranty service extends to the original retail purchaser only and commences with the date of delivery.
2. Your Adtemp Mini Thermometer is warranted for two years from date of purchase.

What Is Covered: Replacement of parts, and labor.

What Is Not Covered: Transportation charges to ADC. Damages caused by abuse, misuse, accident, or negligence. Incidental, special, or consequential damages. Some states do not allow the exclusion or limitation of incidental, special, or consequential damages, so this limitation may not apply to you.

To Obtain Warranty Service: Send item(s) postage paid to ADC, Attn: Repair Dept., 55 Commerce Dr., Hauppauge, NY 11788. Please include your name and address, phone no., proof of purchase, and a brief note explaining the problem.

Implied Warranty: Any implied warranty shall be limited in duration to the terms of this warranty and in no case beyond the original selling price (except where prohibited by law). This warranty gives you specific legal rights and you may have other rights which vary from state to state.

For Australian Consumers: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonable foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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Read the instruction manual carefully before using this device, especially the safety instructions, and keep the instruction manual for future use.

Batteries and electronic devices must be disposed of in accordance with the locally applicable regulations, not with domestic waste.

Type BF applied part

CE 0197 LATEX RHY

IB p/n 93-432-00 rev 1

Printed in China