PROFESSIONAL TYMPANIC THERMOMETERS

Model ACT8000  Cradle Case

Model ACT8000R  Ward Base Station
INDEX

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTRODUCTION</td>
<td>3</td>
</tr>
<tr>
<td>GENERAL INFORMATION</td>
<td>4</td>
</tr>
<tr>
<td>BODY TEMPERATURE</td>
<td>5</td>
</tr>
<tr>
<td>MEASUREMENT TIPS</td>
<td>6</td>
</tr>
<tr>
<td>PACKAGING CONTENTS</td>
<td>7</td>
</tr>
<tr>
<td>THE THERMOMETER PARTS</td>
<td>8</td>
</tr>
<tr>
<td>STORAGE CRADLE PARTS MODEL ACT8000</td>
<td>9</td>
</tr>
<tr>
<td>BASE STATION PARTS MODEL ACT8000R</td>
<td>10</td>
</tr>
<tr>
<td>INSTALLING AND REPLACING THE BATTERIES</td>
<td>11</td>
</tr>
<tr>
<td>SETTING UP THE STORAGE CRADLE MODEL ACT8000</td>
<td>12</td>
</tr>
<tr>
<td>HOW TO INSTALL A BOX OF PROBE COVERS INTO THE CRADLE DISPENSER MODEL ACT8000</td>
<td>12</td>
</tr>
<tr>
<td>SETTING UP THE BASE STATION MODEL ACT8000R</td>
<td>13-14</td>
</tr>
<tr>
<td>HOW TO INSTALL A BOX OF PROBE COVERS INTO THE DISPENSERS MODEL ACT8000R</td>
<td>15</td>
</tr>
<tr>
<td>HOW TO FIT AND EJECT THE PROBE COVERS FROM THE THERMOMETER</td>
<td>16</td>
</tr>
<tr>
<td>HOW TO USE THE THERMOMETER</td>
<td>17</td>
</tr>
<tr>
<td>TAKING A TEMPERATURE MEASUREMENT</td>
<td>18</td>
</tr>
<tr>
<td>TURNING THE THERMOMETER OFF</td>
<td>18</td>
</tr>
<tr>
<td>HOW TO RECALL THE 10 STORED MEMORIES</td>
<td>19</td>
</tr>
<tr>
<td>CHANGING THE DISPLAY FROM °C TO °F</td>
<td>19</td>
</tr>
<tr>
<td>USING THE DISPLAY BACK LIGHT</td>
<td>20</td>
</tr>
<tr>
<td>PROBE HEAD PROTECTOR, MODEL ACT8000R ONLY</td>
<td>20</td>
</tr>
<tr>
<td>CLEANING THE THERMOMETER AND ACCESSORIES</td>
<td>21</td>
</tr>
<tr>
<td>TROUBLE SHOOTING GUIDE</td>
<td>22</td>
</tr>
<tr>
<td>SPECIFICATIONS, CALIBRATION</td>
<td>23</td>
</tr>
<tr>
<td>INFORMATION/WARRANTY</td>
<td>24</td>
</tr>
<tr>
<td>OTHER ZEAL CLINICAL PRODUCTS</td>
<td>25</td>
</tr>
</tbody>
</table>

* THERMOMETER QUICK START GUIDE - REFER TO PAGE NUMBERS IN RED FIRST
Your Zeal Tympanic Thermometer has been specifically designed for professional use. It provides a fast 1 second, safe and accurate, body temperature measurement from the human ear. The special shape of the thermometer probe will help to avoid damage to the tympanic membrane by insertion too far into the ear canal. The thermometer features ‘hands-free’ probe cover application and removal to help reduce cross contamination by HAI’s (healthcare acquired infections).

As with all thermometers, correct use and technique is essential for obtaining accurate temperature assessments. Therefore, please read these instructions carefully, and thoroughly, before using the product.

Important

• Operating environment: the thermometer is designed to be used in an ambient temperature of +10°C to +40°C or +50°F to +104°F and 25% to 95% RH.

• To ensure accurate assessments it is important to keep the probe lens clean, dry, and free from defects. To protect the thermometer always return it to the storage cradle after use.

• This thermometer should only be used with genuine Zeal probe covers MedACCU2010.

• To avoid inaccurate readings and prevent cross contamination always attach a new, clean probe cover for each temperature measurement. Please check the probe cover before use to ensure that it is not damaged.

• If by accident the thermometer has been used without a probe cover attached, clean the lens before next use - see section on cleaning the product, page 21.

Zeal Professional Tympanic Thermometers conform with all the requirements of European Standard EN 12470-5 and ASTM E 1965-98.
Numerous clinical studies have recognised that the ear is an excellent site for temperature measurement as it reflects the body’s true core temperature. Human body temperature is regulated by the Hypothalamus in the brain which shares the same blood supply as the Tympanic Membrane (ear drum). Variations in the core body temperature can usually be observed more quickly at the tympanic membrane than at other sites, such as the mouth (oral), under arm (axilla), or the Rectum.

- It is the ideal place for the temperature measurement of babies over 3 months, children, and the elderly.
- The Zeal thermometer will give an accurate, reading in approximately 1 second.
- It is easy and convenient to use in the ear canal.
- The “hands free” probe cover application and removal will help to avoid cross infections (HAI’s).
BODY TEMPERATURE

It is important to recognise that a ‘normal’ body temperature is a ‘range’ of temperatures that vary with the patient’s age and the measurement site. Therefore, measurements from different sites should not be directly compared, even if taken at the same time.

Normal Body Ranges by Site

<table>
<thead>
<tr>
<th>Site</th>
<th>0 - 2 Years</th>
<th>3 - 10 Years</th>
<th>11 - 65 Years</th>
<th>Over 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ear</td>
<td>36.3 - 38°C</td>
<td>36.1 - 37.7°C</td>
<td>35.8 - 37.6°C</td>
<td>35.7 - 37.5°C</td>
</tr>
<tr>
<td>Oral</td>
<td>35.3 - 37.5°C</td>
<td>36.7 - 37.8°C</td>
<td>35.7 - 36.9°C</td>
<td></td>
</tr>
<tr>
<td>Axilla (armpit)</td>
<td>34.7 - 37.3°C</td>
<td>35.1 - 36.8°C</td>
<td>35.5 - 36.3°C</td>
<td></td>
</tr>
<tr>
<td>Rectal</td>
<td>36.6 - 38°C</td>
<td>36.5 - 38°C</td>
<td>37 - 38.1°C</td>
<td>36.1 - 37.3°C</td>
</tr>
</tbody>
</table>

The normal temperature range of a person tends to decrease with age. The table below demonstrates the range of normal body temperatures corresponding with age, at the different measurement sites.

Normal Body Temperatures by Patient Age

<table>
<thead>
<tr>
<th>Site</th>
<th>0 - 2 Years</th>
<th>3 - 10 Years</th>
<th>11 - 65 Years</th>
<th>Over 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ear</td>
<td>36.3 - 38°C</td>
<td>36.1 - 37.7°C</td>
<td>35.8 - 37.6°C</td>
<td>35.7 - 37.5°C</td>
</tr>
<tr>
<td>Oral</td>
<td>35.3 - 37.5°C</td>
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<td></td>
</tr>
<tr>
<td>Axilla (armpit)</td>
<td>34.7 - 37.2°C</td>
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<td></td>
</tr>
<tr>
<td>Rectal</td>
<td>36.6 - 38°C</td>
<td>36.5 - 38°C</td>
<td>37 - 38.1°C</td>
<td>36.1 - 37.3°C</td>
</tr>
</tbody>
</table>

The range of ‘normal’ differs between people and is influenced by many things such as activity, time of the day, age, stress, medical condition and gender.

Always try to take temperatures from the same ear and wait at least two minutes between assessments. (Repeatedly inserting a probe at room temperature into a patient’s ear will cause the ear to cool down resulting in lower readings).

Be aware of temperature variations between different ears, especially if the temperature is not within the patient’s clinical profile. Record which ear is used to take the assessment.
TEMPERATURE MEASURING TIPS

► Do not use the thermometer in an ear that shows signs of blood, drainage, or injury, in the external auditory canal.
► The ear must be free from all obstructions in order to take an accurate measurement.
► Normal Cerumen (ear wax) will not affect the reading accuracy, unless it is compacted.
► Tympanic thermometers should not be used on the ear of a patient suffering from an ear infection such as Otitis Media, use the healthy ear instead.
► Always use the untreated ear if medication has previously been applied to the ear canal.
► For patients wearing hearing aids or plugs, remove the object 20 minutes prior to taking a temperature measurement.
► Other factors may affect correct ear temperature measurements, particularly when a patient has:
  • been lying on their side, please take the temperature from the upper exposed ear.
  • If a patient has had their ears covered, been exposed to hot, or cold temperatures, has recently ingested food or drink, been in energetic exercise, swimming or bathing - wait at least 20 minutes prior to taking a temperature measurement.
PACKAGING CONTENTS MODEL ACT8000 (with cradle storage unit)

- Zeal ACT8000 Tympanic Ear Thermometer
- Protective Cradle Storage Unit (with built-in probe cover dispenser).
- Box of 20 MedACCU2010 Probe Covers
- This Instruction Booklet
- 2 Alkaline AAA batteries

PACKAGING CONTENTS MODEL ACT8000R (with tray base station)

- Zeal ACT8000R Rechargeable Tympanic Ear Thermometer.
- Base Station Tray, (with built-in charger, probe cover dispenser, storage slots for digital oral thermometer and sheathes).
- Base Station Tray Wall Mounting Bracket with fixing screws.
- Box of 200 MedACCU2010 Probe Covers.
- 1 Portable probe cover dispenser (holds box of 20 covers).
- This Instruction Booklet.
- 2 Rechargeable batteries.
- UK 3 pin AC/DC Power Adaptor.
Please fully familiarize yourself with the thermometer and its working parts

THE TYMPANIC EAR THERMOMETER PARTS
MODELS ACT8000 AND ACT8000R

- Probe Head
- Probe Lens
- Measurement Indicator Light
- Probe Cover Sensor
- LCD Display
- ON/OFF Button
- Probe Cover Ejector Button
- Scan Button
- Battery Charging Terminals
  MODEL ACT8000R ONLY
- Battery Compartment Cover

8
STORAGE CRADLE PARTS MODEL ACT8000

BOX OF PROBE COVERS FITTED ONTO THE CRADLE DISPENSER

STORAGE CRADLE

THERMOMETER SUPPORT
Please fully familiarize yourself with the thermometer and its working parts
INSTALLING/REPLACING THE BATTERIES

MODEL ACT8000 THERMOMETER

The ACT8000 thermometer uses 2 AAA alkaline batteries. When the batteries get low, a small black battery symbol appears on the lower right side of the display indicating that they should be replaced.

To replace the batteries:
1. Slide the cover off by pushing on the notch at the top of the battery cover.
2. Remove the old batteries, insert 2 new AAA batteries into the compartment ensuring to match the indicated polarity symbols.
3. Replace the battery compartment cover.

The thermometer can take up to 3000 measurements on new fully charged batteries.

MODEL ACT8000R BASE STATION

The ACT8000R thermometer uses 2 rechargeable batteries. When the batteries get low, a small black battery symbol appears on the lower right side of the display indicating that they should be recharged. The thermometer should be kept on the base when not in use to ensure that the batteries are charged. The approximate battery charging time from completely drained to fully charged is 7 hours.

If the batteries get old and unable to hold a charge, replace them with a new battery set.
1. Slide the cover off by pushing on the notch at the top of the battery cover.
2. Remove the old batteries, insert 2 new AAA rechargeable batteries into the compartment ensuring to locate the induction bolt of the battery set into the hole in the battery compartment. Ensure to match the indicated polarity symbols.
3. Replace the battery compartment cover.
HOW TO INSTALL THE BOX OF PROBE COVERS INTO THE CRADLE DISPENSER

Insert the bottom of a new probe cover box onto the top of the dispenser arms with the opening tab at the top, facing forward. Do not open the top tab/lid of the probe cover box. The probe cover box should be pushed down gently, but firmly, over the dispenser arms until the arms penetrate into the inside base of the box. In view of the special design of the probe cover box, the tab/lid of the box will automatically open when inserted onto the dispenser arms. The probe cover box goes down when a probe cover is attached to the thermometer and the next probe cover rises, ready for use.

SETTING UP THE STORAGE CRADLE MODEL ACT8000

REMOVING AND PUTTING BACK THE THERMOMETER

Hold and push down on the thermometer releasing the top of the probe head from the cradle, then pick up the thermometer. The probe cover box, if installed, swings forward ready for use. To return, put the base of the thermometer back onto the thermometer support, gently push down and swing the probe head under the top of the cradle, releasing your hand from the thermometer automatically stores it in the protective cradle.
SETTING UP THE BASE STATION MODEL ACT8000R

1. The wall mounting bracket, is supplied with 4 plastic fixing plugs, 4 screws and a template for guidance.

2. Please select a convenient position in the ward, near a power socket, so that the supplied AC/DC mains adaptor can be plugged in. Use the template as a guide for making the fixing holes. Ensure the bracket is level, at a suitable height, and securely installed.

3. Secure the 4 circular recessed hollows at the bottom of the tray onto the 4 raised lugs of the wall mounting bracket.
4. Plug the AC/DC power adaptor into the AC mains power supply outlet (110V - 240VAC) and connect the other end to the power input socket, located at the right side of the tray, towards the back.

5. Placing the thermometer on the base not only protects the thermometer, it also ensures that it is always charged, and ready for use. The ACT8000R can be put on the tray for charging at any time, it is supplied with rechargeable alkaline batteries that do not have a ‘memory effect’.

6. The power charge indicator light, located at the front right of the tray, indicates the current charging mode. An orange light indicates that the thermometer is charging. A green light indicates that the thermometer is fully charged (the green light also comes on if the thermometer is not on the base).
THE LARGE BOX OF 200 PROBE COVERS
Open the inner box lid and carefully remove the entire top portion of the box along the perforated score, taking care not to rip the box base. Place the box containing the ten smaller boxes of 20 probe covers in the grooved portion of the tray base ready for installation into the dispensers.

HOW TO INSTALL THE BOX OF PROBE COVERS INTO THE DISPENSERS
The boxes of 20 probe covers fit into the fixed and portable dispensers in the same way. Insert the bottom of a new box of probe covers onto the top of the dispenser arms with the opening tab at the top, facing forward. Do not open the top tab/lid of the probe cover box. The probe cover box should be pushed down gently, but firmly, over the dispenser arms until the arms penetrate into the inside base of the box. The opening on the top of probe-cover box and the U-form gap of the probe-cover dispenser must be in the same direction as shown. In view of the special design of the probe cover box, the tab/lid of the box will automatically open when inserted onto the dispenser arms. The probe cover box goes down when a probe cover is attached to the thermometer and the next probe cover rises, ready for use.
HOW TO FIT THE PROBE COVERS
Open the lid on the box of probe covers. Insert the thermometer probe tip into the top cover and push down gently. An audible “click” will be heard when the probe cover is secured on the probe. The thermometer is now ready to be used.

The Zeal ACT8000 thermometer features a probe cover sensor. The thermometer will not operate if a probe cover has not been applied.

If a probe cover has not been fitted, or correctly positioned, a flashing probe icon will appear on the display to alert you.

HOW TO EJECT THE USED PROBE COVER
After measurement eject the used probe cover (press the EJECT button) and put on a new, clean cover.

Please ensure that the used probe covers are disposed of safely and hygienically.
USING THE THERMOMETER MODELS ACT8000 AND ACT8000R

HOW TO USE YOUR THERMOMETER

1. Apply a new, clean probe cover. The thermometer features a ‘hands - free’ probe cover application and removal to help avoid cross contamination by HAI’s (healthcare acquired infections).

2. Press and release the ON/OFF button. The thermometer will make an audible “beep” and perform a brief self - test when all the display indicators will be shown.

3. Following a satisfactory self - test the Okay “ok” symbol will be displayed.

4. The thermometer display will then show three short dashes with a flashing °C (or °F) indicating that the thermometer is ready to take a measurement.
TAKING A MEASUREMENT

Gently insert the probe into the ear canal and press the “SCAN” button while keeping the probe snugly in place. If the probe has been correctly inserted into the ear canal for the full measuring cycle, an audible beep will signal the end of the measuring process. At the same time the Measurement Indicator Light will illuminate for approximately 1 second. The thermometer senses that an accurate measurement has been taken and shows the result on the LCD display.

To ensure an accurate reading, gently pull the ear back to straighten the ear canal and snugly position the probe into the ear canal, aiming towards the membrane of the eardrum.
- For children over 3 months and under 2 years old:
  > Pull the ear straight back.
- For children over 2 years old and adults:
  > Pull the ear straight up and back.

TURNING THE THERMOMETER OFF

The Zeal tympanic thermometer turns off automatically after about 60 seconds of non use. It can also be turned off manually by pressing the ON/OFF button.
USING THE THERMOMETER MODELS ACT8000 AND ACT8000R

MEMORY MODE

The thermometer automatically stores the last 10 measurements taken into its memory. The latest temperature taken is displayed first when recalled from the memory. To recall a temperature from the memory, turn the thermometer off, then press and hold down the ON/OFF button for approximately 2 seconds. A flashing ‘01’ will appear with a small ‘M’ at the lower right of the display. The temperature value of this memory is shown on the display for 2 seconds. If the ON/OFF button is pressed again before the 2 seconds are up, the next memory ‘02’ temperature is displayed. Repeat this process to see all of the 10 stored temperatures; otherwise the thermometer returns to the normal measuring mode. Remember that the latest measurements taken are displayed first when recalled from the memory.

CHANGING DISPLAY FROM °C TO °F

Your Zeal thermometer can display in either degrees Celsius (°C) or degrees Fahrenheit (°F). It is preset to display Celsius (°C).

To switch to Fahrenheit, press the ON/OFF button twice, one right after another. Hold the second press down for about 2 seconds until the symbol “°F” (or “°C”) appears, with a beep, on the display. Releasing the on/off button returns the thermometer to the measuring mode. Repeat the procedure to change back to Celsius.
USING THE THERMOMETER MODELS ACT8000 AND ACT8000R

BACK LIGHT FOR READING IN THE DARK

The thermometer has a back light function. The back light appears automatically when the unit is turned on and remains alight until the unit is ready for taking a measurement. The back light also appears when the thermometer is switched between °C and °F, and when the 10 stored measurements in the memory are recalled.
To read the display in low light conditions, when the measurement has finished being taken, press the ON/OFF button and hold it down for more than one second to turn on the back light. The back light will go out when the ON/OFF button is released and the ear thermometer turns off at the same time.

PROBE HEAD PROTECTOR MODEL ACT8000R ONLY

The Probe-head protector is designed to help protect the probe head from damage. Please cover the probe head with the probe-head protector when the ear thermometer is not in use.
The protector can be removed by hand, or released by pressing the probe cover ejector button.
CARING FOR AND CLEANING YOUR THERMOMETER

To ensure that the thermometer measures accurately, it is very important to keep the probe lens clean, dry and undamaged. Cerumen (ear wax), fingerprints, dust, or other soiling deposits reduce the opacity of the window resulting in lower temperature readings. If, by mistake, the thermometer is placed in the ear canal without a probe cover in place, the lens should be cleaned immediately.

To clean the probe lens, gently wipe its surface with a cotton swab slightly moistened with 70% alcohol and immediately wipe dry with a clean cotton swab. After cleaning, allow approximately 6 minutes drying time. Before using, make sure the probe lens is clean and dry. Avoid touching the lens except when cleaning is required.

Note: Do not use any chemical other than an alcohol solution to clean the probe lens.

To clean the thermometer, display and exterior, dispenser and cradle base, use a soft cloth slightly moistened with a 70% alcohol solution. Do not use abrasive cleaners. Never submerge the thermometer in water or any other liquid. Keep the thermometer and probe covers in a dry location (the thermometer is not protected against ingress of water). Keep them free from dust, contamination, and away from direct sunlight. The ambient temperature at the storage location should remain fairly constant ideally within the range of 10 °C to 40 °C (50 °F to 104 °F).
## Trouble Shooting Guide

<table>
<thead>
<tr>
<th>ERROR MESSAGE</th>
<th>SITUATION</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1°C</td>
<td>No probe cover is attached.</td>
<td>Attach a new, clean cover.</td>
</tr>
<tr>
<td>37.0°C</td>
<td>The measurement taken is not within the typical temperature measuring</td>
<td>Ensure the probe tip and lens are clean, and a new probe cover is attached.</td>
</tr>
<tr>
<td>HI</td>
<td>range of a human. HI = too high</td>
<td>Make sure the thermometer is correctly positioned in the ear canal, then take a new reading.</td>
</tr>
<tr>
<td>Lo</td>
<td>Lo = too low</td>
<td></td>
</tr>
<tr>
<td>ambient temp.</td>
<td>The ambient temperature is not within the right operating range, or it is</td>
<td>Please let the thermometer remain for 30 minutes in a room where the ambient temperature is between</td>
</tr>
<tr>
<td>HI</td>
<td>is changing too quickly. HI = too high</td>
<td>10°C/40°C, (50°F/104°F).</td>
</tr>
<tr>
<td>ambient temp.</td>
<td>Lo = too low</td>
<td></td>
</tr>
<tr>
<td>37.0°C</td>
<td>Battery power is getting low, but the thermometer can still operate.</td>
<td>Please replace the batteries as soon as possible.</td>
</tr>
<tr>
<td>- - -</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-</td>
<td>Battery power is too low. The thermometer will not function correctly.</td>
<td>Please replace the batteries IMMEDIATELY.</td>
</tr>
<tr>
<td>Err</td>
<td>System error.</td>
<td>Switch the thermometer off, then switch back on. If the error message still appears have the</td>
</tr>
<tr>
<td>-</td>
<td></td>
<td>thermometer checked.</td>
</tr>
</tbody>
</table>
THERMOMETER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring Range</td>
<td>26.0°C to 43.9°C / 78°F to 111.9°F</td>
</tr>
<tr>
<td>Measurement Time</td>
<td>1 second approx.</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.2°C / 0.4°F (35.5°C to 42°C / 95.9°F to 107.6°F) for ambient temperature 16°C to 40°C . ±0.3°C (outside of this temperature range)</td>
</tr>
<tr>
<td>Operating Ambient Range</td>
<td>10°C to 40°C / 50°F to 104°F</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>25% to 95% rh non condensing</td>
</tr>
<tr>
<td>Memory</td>
<td>10 recall temperatures stored in memory</td>
</tr>
<tr>
<td>Automatic Power Off</td>
<td>1 minute approx.</td>
</tr>
<tr>
<td>Battery</td>
<td>2 x AAA 1.5V alkaline</td>
</tr>
<tr>
<td>Battery Life</td>
<td>3000 measurements approx.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>155mm x 55mm x 35mm</td>
</tr>
<tr>
<td>Weight</td>
<td>100g</td>
</tr>
<tr>
<td>Long Term Storage Range</td>
<td>-25°C to 55°C / -13°F to 131°F</td>
</tr>
<tr>
<td>Long Term Storage Humidity</td>
<td>25% to 95% rh non condensing</td>
</tr>
</tbody>
</table>

CALIBRATION

This professional infrared digital ear thermometer was precisely calibrated at the time of manufacture. It complies with all the requirements established in EN12470-5 and ASTM E1965-98. The thermometer conforms with Medical Device Directive EC 93/42/EEC, C0123.

Your Zeal Tympanic thermometer is safe, easy to use, and comfortable for the patient. To ensure the best results are obtained, please take time to read these instructions carefully, and keep them handy for future reference.
REMEMBER

- Do not disassemble, drop, twist or bend the ear thermometer.
- Do not dispose of the ear thermometer and its batteries into fire.
- Always keep the ear thermometer and its accessories from direct sunlight, moisture, dust and extreme temperature change while in use, storage, or transport.
- This product is not disinfected and not sterilized. Before use, please follow the methods suggested in the part "Caring for and cleaning your thermometer".
- Please follow your Hospital’s and government’s environment policy to recycle the ear thermometer, accessories and batteries.

LIMITED WARRANTY

1. The warrantor guarantees that the infrared ear thermometer will be free from manufacturing defects under normal use for a period of one year from the date of purchase subject to the following terms and conditions.

2. This warranty covers only normal use. This warranty does not cover batteries. This warranty is voided if the infrared ear thermometer product is misused or abused in any manner.

3. This warranty does not cover the cost of transport for repair, the result or damage caused by improper use of thermometer and other expenses which are not specified here. This warranty is effective only by presenting proof of purchase. Should service be required during, or after, the warranty period, contact Zeal’s Customer Service Department +44 (0)20 8542 2283.

 ICON IDENTIFICATION

European Union’s Waste Electrical and Electric Equipment in accordance with Article 11 (2) of Directive 2002/96/EC WEEE

Type BF equipment. The insulation is required between the applied part (patient circuit) and all other parts of the equipment, which are earthed or could be earthed.

Caution! See instructions for use!

The product conforms to the requirement of EC Directive 93/42/EEC.
Established 1888

The Clinicians choice

Other Quality Clinical Thermometers available from Zeal

Ezetemp Disposable Thermometer - High Accuracy, Low Cost

EZEtemp™ disposable thermometers are the clinicians choice throughout the National Health Service. Safe, accurate and reliable, simply dispose of after use to help eliminate Healthcare Acquired Infections. Designed to give the right temperature reading every time, the superior dot matrix sensor system consists of temperature sensitive indicating dots. Each dot is precisely calibrated to change colour at a temperature of 0.1°C higher than the previous one. The matrix is easy to read and has an ±0.1°C accuracy between the critical range of 37.0°C to 39.0°C. They fully comply with the accuracy and safety requirements of European Standard EN 12470-2:2000+A1:2009 and ASTM E 1299-96 (2010), CE0086.

Nextemp 7- Day Disposable Thermometer

Nextemp 7- Day thermometers are similar to our Ezetemp Disposable Thermometers except they can be re-used on the same patient for up to 7 days. The thermometers need to be cleaned between use and disposed of after 7 days use.

Oral Digital Thermometer with extended Range

- Ideal for standard assessments, premature babies and hypothermic patients.
- Extended range 28.0°C/42.9°C.
- High accuracy: +/- 0.1 °C.
- 100% waterproof.
- Memory of last measurement.
- Beeps when ready.
- Switches off automatically
- Storage case.
- Use with Sterile sheath to help avoid cross contamination.

Oral Digital Thermometer with standard Range

- Ideal for standard assessments.
- Range 32.0°C/43.9°C.
- High accuracy: +/- 0.1 °C.
- 100% waterproof.
- Memory of last measurement.
- Beeps when ready.
- Switches off automatically
- Storage case.
- Resistant to damage from most cleaning solutions.
- Use with Sterile sheath to help avoid cross contamination.

Contact Zeal for further information, see back page
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