

Insta-Therm[™]

Instant-read Ear Thermometer



Instruction Manual

016-640

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Introduction

Dear customer, thank you for purchasing your new AMG Physio Logic® Insta-Therm™ Ear Thermometer. This thermometer will enable you to take an accurate and instant measurement whenever needed.

Instant reading:

- New technology requires only 0.1 second to take a measurement
- No waiting while the electronic system processes and displays the temperature reading.

Comfortable:

- Ergonomic-shaped design guarantees that taking a temperature is done comfortably.

Easy to clean and disinfect:

- The newly designed infrared probe with its waterproof lens can be thoroughly cleaned with alcohol.

Energy-efficient:

- Automatically shuts itself off after one minute of idling to ensure a long battery life lasting for at least 5000 measurements.

Long life:

- The state of the art infrared detection technology ensures that your unit will last a long time.

Accurate:

- 512 scanning sequences per second ensures reliable accuracy with a deviation of +/- 0.2°C (0.4°F).

Compact:

- Small and lightweight (only 36 g) body is ideal for home-use and travelling.

User-friendly:

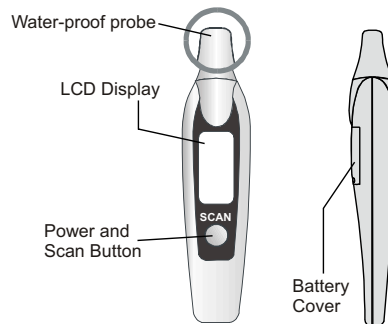
- One-button easy operation and easy-to-read LCD display give convenience with one finger operation.

In order to obtain accurate measurements, make sure to read this instruction manual thoroughly and carefully before using. Keep it handy for future reference.

Important notes

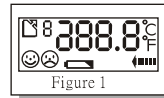
- The ear thermometer is a delicate electronic device. Please handle with care.
- The thermometer body is NOT waterproof except for the infrared probe, direct contact of the body with water or other liquids must be avoided.
- Do not expose the thermometer to direct sunlight.
- Keep it in its' storage case and out of the reach of children. Store at normal room temperature and humidity.
- The ear thermometer is produced with high quality materials.
- Use of this ear thermometer should not replace a visit to your doctor.
- This thermometer is designed for taking temperatures from the ear canal only. **DO NOT** use it for measuring rectal, oral or underarm temperature.

Exterior appearance and functions

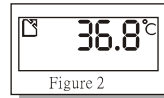


Operating instructions

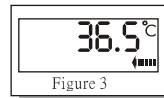
1. Press the SCAN button for one second (A specific design to avoid accidentally turning it on), the system will start itself and self test in 1 second as shown in Figure 1.



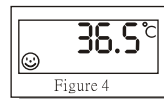
2. Once the self-testing is completed, the last temperature measured will be shown on the display (see Figure 2) which indicates the thermometer is now ready to use.



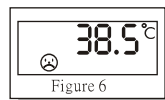
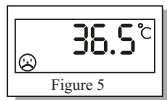
3. Insert the probe into the ear canal. Be sure to position the probe properly to allow the probe tip to scan down the ear canal to the eardrum and so obtain an accurate reading (see Figure 3). Press the SCAN button without releasing it to activate the automatic scanning sequences.



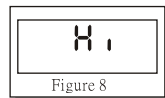
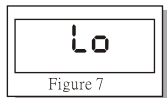
4. Remove the probe from the ear canal after completing the reading.
5. Release the SCAN button to see the temperature reading. You will hear a beep sound to indicate the end of measurement. The temperature reading accompanying with an indicating face will be shown on the display (see Figure 4).



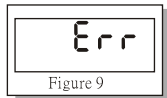
6. A smiling face indicates a temperature lower than 38°C (100.4°F). While a upset face coming with one long followed by two short beep sound indicate a temperature higher than 38°C (100.4°F) (see Figure 5 and 6).



7. A "Lo" or "Hi" symbol will appear when the temperature is out of the measuring range (see Technical specifications on page 8 for details) as shown in Figure 7 and 8.



8. The remark "Err" appears if the operating temperature is not within the permissible range (see Figure 9).



9. Multiple readings should be at least 5 seconds apart to ensure precise temperature readings.

10. Once finished taking measurements, leave the thermometer idle and it will automatically shut itself off after one minute.

Note:

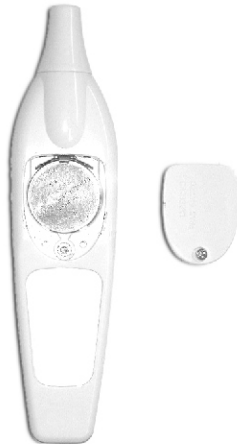
This is a Celsius thermometer.

Battery replacement and installation

1. Remove the screw off the battery lid.
2. Open the battery lid and remove the original battery.
3. Use a new CR-2032 Lithium battery.
4. Insert the battery into the battery compartment with the (+) symbol facing upwards.
5. Replace the battery lid and fasten with the screw.

Replace the battery when the “low battery” warning symbol appears on the display.

Dispose of the battery in a safe manner, keeping it away from children and heat.




This thermometer meets the requirements of:


ASTM E 1965-98:


“Standard specification for infrared thermometers for intermittent determination of patient temperature”.


Display messages


Degree of temperature: 

Celsius: 

Scanning sequence in progress: 

Low battery warning: 

Smiling face indicating temperature lower than 38°C (100.4°F): 

Upset face indicating temperature higher than 38°C (100.4°F): 

Technical specifications

Measuring range:

34°C to 43°C (93.2°F to 109.4°F)

Measuring accuracy:

± 0.2°C (0.4°F): from 36°C to 39°C (96.8°F to 102.2°F)

± 0.3°C (0.5°F): less than 36°C (96.8°F) or greater than 39°C (102.2°F)

Display resolution: 0.1°C

Response time:

A temperature reading is obtained in merely 0.1 second.

Fever alarm:

An upset face coming with one long followed by two short beep sounds.

Easy-cleaning and eco-design:

The probe tip is equipped with waterproof lens allowing water rinsing. No extra probe cover is required.

Power saving:

Automatic shut off after one minute of idling.

Warning indication:

"Low battery" symbol and "Lo" / "Hi" symbol indicating out of measuring range.

Battery life:

Good for at least 5000 measurements.

Operating environment:

16°C to 40°C (60.8°F to 104°F) with relative humidity up to 95% (non condensing).

Care and cleaning

Clean the uniquely-designed waterproof probe with a soft, alcohol-moistened cloth after each use. Clean the body of the ear thermometer with a soft, dry cloth. **NO WATER RINSING OF THE THERMOMETER BODY** is allowed. Never use an abrasive cleanser or submerge the body of the ear thermometer in water or other liquids.

Protection

Do not expose the ear thermometer to extreme temperature, very high humidity, or direct sunlight. Avoid extreme shock or accidental drop-down. Do not touch the probe tip with fingers. Do not disassemble the ear thermometer.

Troubleshooting

1. Consistent low temperature readings:

- The probe is not positioned properly in the ear canal.
 - The tip of the probe must be snugged and fully seated against the opening of the ear canal. Failure to properly position the probe may lead to a low temperature reading.
- The waterproof lens is dirty.
 - Thoroughly clean the lens with a soft, alcohol-moistened cotton cloth .

2. Temperature taken is not within the measuring range.

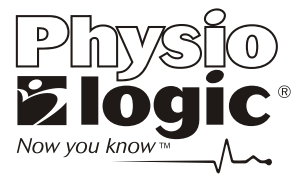
- Scanning sequences are not operated in the ear canal.
 - It may occur if you operate the scanning sequences before placing the ear thermometer in the ear while the ambient temperature is not within the measuring range (see "Technical specifications"). Remember not to release the SCAN button till the thermometer has been removed from the ear canal.

3. Low battery warning

- Battery is too low to take measurement.
 - Replace the battery (see "Battery installation).

Warranty

One year limited warranty. All AMG Medical Inc. products are warranted against defects in materials and workmanship. AMG's warranty does not cover product abuse or normal wear. AMG's warranty is for the original user only.



Consumer Info-Line

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