



**Your partner in measuring body temperature.**

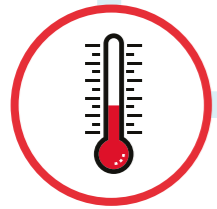
# Genius™ 3 Tympanic Thermometer



# Did you know?

## Genius™ 3 Tympanic Thermometer System

Durable<sup>5</sup>, Dependable and Accurate<sup>6,7</sup>



Core temperature is the gold standard in pediatrics for temperature measurement but core temperature measurements are invasive, unpractical for a daily routine and require specialized equipment.<sup>1</sup>



Among non-invasive methods, rectal thermometry is considered clinically to be the best estimation of the core temperature, but it is time consuming, requires some practice and is associated with rare but possible complications.<sup>1</sup>



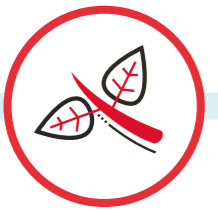
Infrared thermometry is a popular alternative for the traditional measures. The tympanic membrane shares the same blood supply with the hypothalamus, the thermoregulatory center of the human body.<sup>1,2</sup>



For adults having surgery the NICE guidelines recommend measuring the temperature by using a site that produces a direct measurement of core temperature, or a direct estimate that has been shown in research studies<sup>4</sup>



In infants aged 0-5 years the NICE guidelines recommend not routinely using the oral and rectal routes to measure the body temperature. In children aged 4 weeks to 5 years it is recommended to use electronic, chemical or a infrared Tympanic thermometer.<sup>3</sup>



Tympanic thermometers work with disposable batteries; if they cannot be recalibrated and battery consumption is high, their environmental footprint can be significant.



Infrared tympanic thermometers detect the radiation of the ear canal and tympanic membrane which is considered to directly reflect core temperature.<sup>1</sup>



Tympanic thermometers need to be checked regularly to validate their accuracy. If out of parameters they must be recalibrated or, if not possible, replaced with new units.



**Peak Select technology** takes multiple readings and selects the highest temperature for display in 1 to 2 seconds.

The **disposable single-use PE\* probe covers** help prevent cross-contamination. When properly collected and disposed they can be easily recycled.



**Programmable display** shows oral, rectal, or a direct temperature reading in ear mode.

15, 30, 45, and 60 second pulse **timer functions** to detect the heartbeat.

The **Plastic housing** allows for an IP22 rating for protection against dust and liquid ingress.

Equipped with 3 x AAA batteries the Genius™ 3 allows a **minimum of 15,000 readings. More temperatures, reduced battery waste.**

### Genius™ checker/calibrator



#### Specially designed

The checker/calibrator specially designed to work with the Genius™ 3 ensures long term accuracy, while minimizing the environmental impact of disposing of off-parameter devices.



#### Calibration process

The calibration process takes minutes and can be done in-house, thus reducing the costs and environmental impact of shipping devices to Service & Repair.



\* Polyethylene

Industry standard tested performance and durability<sup>5,6,7</sup>

## Product specifications

### Accuracy

- +/- 0.3°C<sup>5</sup>

### Measurement Response Time

- 1–2 seconds

### Ambient Operating Range

- 16°C to 33°C (60.8°F to 91.4°F)

### Temperature Measurement Range

- 33°C to 42°C (91.4°F to 107.6°F)

### Storage Temperature Range

- -25°C to +55°C

### Ear, Oral and Rectal Mode

- Unadjusted temperature in ear mode

### Battery Life

- 15,000 temperatures (3 x AAA batteries)

### Anti-Theft System (available separately)

- Wall mount bracket/Genius™ mobile cart

### Compliant with Standards

- ISO 80601-2-56:2017<sup>5</sup>
- IEC 60601-1:2005/AMD1:2012<sup>8</sup>
- IEC 60601-1-2:2014<sup>7</sup>
- IEC 60601-1-11:2015 Ed<sup>8</sup>

### Warranty

- 3 year full manufacturer warranty



## Genius™ 3 Tympanic Thermometer and Base

Code	Description		Sales unit (Box/packaging)
303013	Genius™ 3 Tympanic Thermometer and Base	CE 0123	1

## Genius™ 3 Checker/calibrator and disposables

Code	Description		Sales unit (Box/packaging)
303030	Genius™ probe covers	CE	2112 (22x96)
303097	Genius™ checker/calibrator	CE	1
303058*	Locking wall mount		1
303059*	Cart with locking mount		1
F31950-SP*	Genius™ replacement cord		1
PT00058372*	Genius™ 3 Calibrator Cable		1

\*Accessories are not classified as a medical device and do not require a CE/UKCA mark



Durable<sup>5</sup>



Dependable<sup>4</sup>



Accurate<sup>6,7</sup>

## Download the free educational tool

# Genius™ Thermometry training App

from Apple App Store or Google Play



For the avoidance of doubt, this app does not replace the Instruction for Use provided with the product or the information provided to you and does not constitute medical advice or intend any medical purpose. It is considered an educational support with no claim to completeness regarding the information provided.

## References

1. Diagnostic test accuracy of new generation tympanic thermometry in children under different cutoffs: a systematic review and meta-analysis; Dan Shi, Li-Yuan Zhang and Hai-Xia Li; BMC pediatr. 2020 May 12;20(1):210.
2. Medical Student Survival Skills by Philip Jevon, Ruchi Joshi at el; Wiley Blackwell; 2020
3. Fever in under 5s: assessment and initial management; NICE guideline Published: 07 November 2019 Last updated: 26 November 2021; www.nice.org.uk/guidance/ng143
4. Hypothermia: prevention and management in adults having surgery; Published: 23 April 2008; Last updated: 14 December 2016; https://www.nice.org.uk/guidance/cg65
5. Based on internal test report #ISO 80601-2-56, Medical electrical equipment — Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement. February 2018
6. Based on internal report #P-4359-049, revision 3, Ear Thermometer Simulated Use Testing for Accuracy. March 2007
7. Based on internal test report #COVI0147, revision 1. July 2017.
8. Based on internal test report #IEC 60601-1, Medical electrical equipment — Part 1: General requirements for basic safety and essential performance. Report Number: 102542250BOX-001

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### For healthcare professionals only.

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