

Infrared Thermometry



Features:

- 17.8 cm (7") Base — 20.3 cm (8")
- Hygienic touchless loading and ejecting of probe covers
- Battery life of 15,000 measurements
- Intuitive icon-based interface
- 60 seconds pulse timer
- 1 - 2 seconds response time
- Tapered tip design suitable for babies, children, and adults
- Durable stainless steel probe tip
- Convenient probe storage in base
- Non-continuous adjusted mode
- Internally-powered ME equipment 3 AAA alkaline batteries
- Anti-theft wall mount bracket
- IP22 rating for protection against dust and liquid ingress
- Three (3) year warranty

Our infrared thermometer provides a quick and accurate non-invasive measurement. The tapered probe design and under two (2) second measurement make it easy to use with babies and children.



Infrared Thermometry LCD Screen

Infrared Thermometry Options

Disposable Probe Covers



- Single use probe covers minimize the risk of cross contamination.
- Probe covers conveniently fit into holder.
- Touchless probe cover loading and ejecting support infection control.

Part Number: 303030; Pack of 2,112

Mounting Options



- Thermometry unit can be mounted on wall, rail system or roll stand.
- Mounting solution can be fully customized to your needs.

Specifications

Clinical accuracy characteristics and procedures are available from the manufacturer on request. To verify accuracy, use a certified blackbody as specified in ISO 80601-2-56 or use a Genius Checker/Calibrator – order part number 303097.

Calibrated Accuracy Limits:

Ambient Temperature Target Temperature Accuracy:

- 16°C to 33°C ± 0.3°C (60.8°F to 91.4°F) (± 0.5°F)
- 33°C to 42°C ± 0.3°C (91.4°F to 107.6°F) (± 0.5°F)

Calibrated Accuracy Limits (after Recalibration*):

Ambient Temperature Target Temperature Accuracy:

- 16°C to 33°C ± 0.3°C (60.8°F to 91.4°F) (± 0.5°F)
- 33°C to 42°C ± 0.3°C (91.4°F to 107.6°F) (± 0.5°F)

*Post recalibration accuracy using the Genius Checker/Calibrator may not necessarily be equivalent to factory calibration.

Displayed Temperature Measurement Range:

Temperature Range depends on Site Mode as follows:

- Ear: 33.0°C to 42.0°C (91.4°F to 107.6°F)
- Oral: 33.0°C to 41.9°C (91.4°F to 107.4°F)
- Rectal: 33.6°C to 42.0°C (92.4°F to 107.6°F)

Ambient Temperature Range:

- 16°C to 33°C (60.8°F to 91.4°F)
- 15% to 90% RH
- non condensing

Temperature Resolution:

- 0.1°C
- 0.1°F

Ambient Air Pressure

- Operating atmospheric pressure range from 70kPa to 106kPa

Degree of Protection Against

Electrical Shock:

- Type BF

Weight

- Thermometer (with batteries) - 160 grams
- Base - 100 grams

Transport and Storage Temperature Range:

- -25°C to 55°C (-13°F to 131°F)
- up to 95% RH non-condensing

If the unit is stored at extreme temperature, it is recommended that the unit be checked on the field calibration checker or at the factory before returning to service

Clinical Repeatability:

Clinical repeatability in compliance to ISO 80601-2-56 is as follow: The following equivalence modes are available on the Genius 3 Tympanic Thermometer and Base. Data is available from Cardinal Health on request.

Ear:

In ear (EAR) mode, the display will indicate the absolute temperature without adjustment. The EAR mode is also the UNADJUSTED MODE or DIRECT MODE of temperature acquisition.

Oral:

- In oral (ORL) mode, the ear temperature is adjusted to display the oral temperature equivalent.
- Oral Mode = Ear Mode -0.09 °C
- Clinical Bias = 0.09 °C
- Limits of Agreement = (+/-) 0.64 °C

- Clinical Repeatability = 0.13 °C
- Reference Body Site = Oral Cavity
- Measuring Body Site = EAR

Rectal:

- In rectal (REC) mode, the ear temperature is adjusted to display the rectal temperature equivalent.
- Rectal Mode = Ear Mode +0.56 °C
- Clinical Bias: = 0.5 °C
- Limits of Agreement: = -0.47 / +1.66 °C
- Clinical Repeatability: = 0.231 °C
- Reference Body Site: = Rectum
- Measuring Body Site: = EAR*

Degree of Protection Against Ingress of Fluids:

- Drip Proof – IP22

Device and Safety Standards:

The Genius 3 Tympanic Thermometer and Base meets:

- ISO 80601-2-56:2017
- IEC 60601-1:2005/AMD1:2012
- IEC 60601-1-2:2014

The device meets ISO 80601-2-56:2017 subject to the following conditions:

1. The software was modified during testing to increase the precision of the measurements taken from one significant digit to two significant digits.
2. The increased precision numbers were then averaged to account for the known variance in measurements taken due to human factors.

Infrared Thermometry Part Matrix

TT-X-IR
├──
└── Mounting Options

D Wall/Desktop Mount **R** Roll Stand **A** Amico Horizontal Rail Mount **V** Vertical Rail Mount

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