TrueTymp™

Ear Thermometer

Datasheet





Physical Specifications

Weight	Tympanic thermometer: 160g TrueTymp cradle independent: 110g TrueTymp cradle with link: 110g
Size	Tympanic thermometer: 151 x 36 x 39 mm(±2mm) TrueTymp cradle independent: 166 x 42 x 57 mm(±2mm) TrueTymp cradle with link: 166 x 42 x 57 mm(±2mm)
Display screen	1.3inch Segment LCD
Interface	Tympanic thermometer: 1 power input and communication interface 1 NFC interface TrueTymp cradle independent: 1 power interface 1 Type C USB connector TrueTymp cradle with link: 2 power input and communication interfaces

Measurement Specifications

Meet standard of ISO 80601-2-56.

Measurement range	**20.0ºC to 42.2ºC(68.0°F-108.0°F)**
Resolution	0.1ºC or °F
Measurement time	≤ 2s
Accuracy	•With probe cover: At a room temperature of 16ºC to 40ºC (60.8°F to 104°F): ±0.2ºC (±0.4°F) in measurement range 35.0ºC to **42.2ºC** (95°F to **108.0°F**) ±0.3ºC(±0.5°F) in measurement range **20.0ºC** to 35.0ºC (**68°F** to 95°F) (35.0ºC or 95°F not included). At a room temperature of 10ºC to 16ºC (50°F to 60.8°F) (16ºC or 60.8°F not included): ±0.3ºC(±0.5°F) •Without probe cover At a room temperature of 16ºC to 40ºC (60.8°F to 104°F): ±0.1ºC(±0.2°F) in measurement range 35.0ºC to **42.2**ºC (95°F to **108.0**°F) ±0.2ºC(±0.4°F) in measurement range **20.0**ºC to 35.0ºC (**68°F** to 95°F) (35.0ºC or 95°F not included). At a room temperature of 10ºC to 16ºC (50°F to 60.8°F) (16ºC or 60.8°F not included): ±0.2ºC(±0.4°F)

Statistical Results of Clinical Investigation Data

Measurement site	Ear
Reference body site	Oral
Clinical BIAS	-0.03ºC(0.05°F)
Limits of Agreement	0.31ºC(0.56°F)
Clinical Repeatability	0.10ºC(0.18°F)

Functions

Measurement Unit	°C(Celsius) or °F (Fahrenheit)
Timer	60 seconds
Reading Memories	20 sets

Power Supply Specifications

Battery	Rechargeable lithium-ion battery,3200mAh At least 4500 times of measurement(typical)
Automatic Power Off	Approximately 10 seconds after last measurement
TrueTymp cradle independent	AC power input: 100 to 240VAC (±10%), 50/60Hz (±3Hz), 0.5A Max
TrueTymp cradle with link	DC power input: 5 VDC±5%, 0.5A, powered by the monitor

Environmental Specifications

Temperature	Operating: 10°C to 40 °C (50°F to 104°F) Storage and transport: -25°C to 60 °C (-13°F to 140°F)
Humidity	Operating: 10% to 95 % (noncondensing) Storage and transport: 10% to 95 % (noncondensing)
Barometric	Operating: 427.5 to 805.5 mmHg (57.0 to 107.4kPa) Storage and transport: 120 to 805.5 mmHg (16.0 to 107.4 kPa)
Shock	1m, meet the requirements of GB/T 21417.1—2008

EMC and Radio Regulatory Compliance

Meet the requirements of IEC 60601-1-2: 2014.

Classifications

Type of protection against electrical shock	Class II
Degree of protection against electrical shock	Type BF applied part

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