

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	33.0°C to 42.0°C(91.4°F-107.6°F)
Resolution	0.1°C or °F
Measurement time	≤ 2s
Accuracy	•With probe cover: At a room temperature of 16°C to 40°C (60.8°F to 104°F): ±0.2°C (±0.4°F) in measurement range 35.0°C to 42.0°C (95°F to 107.6°F) ±0.3°C(±0.5°F) in measurement range 33.0°C to 35.0°C (91.4°F to 95°F) (35.0°C or 95°F not included). At a room temperature of 10°C to 16°C (50°F to 60.8°F) (16°C or 60.8°F not included): ±0.3°C(±0.5°F) •Without probe cover At a room temperature of 16°C to 40°C (60.8°F to 104°F): ±0.1°C(±0.2°F) in measurement range 35.0°C to 42.0°C (95°F to 107.6°F) ±0.2°C(±0.4°F) in measurement range 33.0°C to 35.0°C (91.4°F to 95°F) (35.0°C or 95°F

not included).

At a room temperature of 10°C to 16°C (50°F to 60.8°F) (16°C or 60.8°F not included):
±0.2°C(±0.4°F)

Statistical Results of Clinical Investigation Data

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