



Philips Tympanic Temperature Module

Philips 866149 Technical Data Sheet

Features

- The Philips Tympanic Temperature Module integrates spot-check measurements into the IntelliVue Patient Monitors and Avalon Fetal Monitors, enhancing the clinical workflow and staff productivity.
- Rugged, tip-based sensor technology makes accurate and repeatable measurements possible, as well as reducing the need for recalibration.
- Audible and visual indication of completed temperature acquisition.
- The display shows the measured temperature, or the adjusted temperature value for a reference body site: oral, rectal, or core.
- Measurement value automatically displayed on the patient monitor and logged for trending, and/or transfer to an Electronic Medical Record.
- Single-use probe covers¹ support your infection control initiatives. No-touch probe cover application and ejection reduce potential cross contamination.
- To select the most accurate temperature, the probe analyzes up to 100 measurements for each scan in under 2 seconds.
- 15, 30, 45, and 60-second pulse timer functions.

¹ No measurement possible without a probe cover. Between measurements the probe cover must be changed.

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- Dedicated push-buttons for
 - Start of measurement
 - Unit change °Celsius / °Fahrenheit
 - Pulse Timer
- Compatible with the following Patient Monitor¹ families:
 - IntelliVue MP5SC (SpotCheck) and MP5²
 - IntelliVue MP20/30/40/50/60/70/90³
 - IntelliVue MX400/450/500/550/600/700/800³
 - Avalon FM20/30/40/50⁴

Description

The Philips Tympanic Temperature Module 866149 is a tethered SpotCheck Temperature measuring device for use by the following primary end-users: Nurses, Critical Care personnel, Anesthesiologists, and Physicians. It is used with Adult, Pediatric, and Neonatal patients in all kinds of monitoring situations. When not in use, the thermometer is placed into its Base Station. The Base Station allows flexible mounting of the Philips Tympanic Thermometer according to customer needs at the point of care. The Base Station also provides storage for up to 32 probe covers.

Specifications

Safety Specifications

The Philips Tympanic Temperature Module 866149 complies with the following standards:

- UL 60601-1
- IEC 60601-1
- CAN/CSA-C22.2 #601-1
- IEC 60601-1-2
- EN 12470-5
- ASTM E1965

Furthermore it is in compliance with the Regulations in Europe (MDD 93/42/EE), USA (FDA, Federal Law restricts this device to sale by or on the order of a physician) and CAN (CHW).

¹ See ordering Information for required interface options

² With software revision J.2 or higher

³ With software revision K.2 or higher

⁴ With software revision J.3 or higher

Physical Specifications

Product	Max. Weight	W x H x D ^a
Tethered Thermometer	<200 g (7.0 oz.) incl. cable	190 x 43 x 55 mm (7.4 x 1.7 x 2.1 inches) Cable length: 250 ±15 cm (Spiral cable extended)
Base Station	<400 g (14.1 oz.) excl. cable	205 x 65 x 75 mm (8.0 x 2.5 x 2.9 inches)

^a Device dimensions (values ±3mm)

Environmental Specifications

Item	Condition	Range
Temperature Range	Operating	16 – 33°C (60.8 – 91.4°F)
	Storage	-25 – 55°C (-13 – 131°F)
Humidity Range	Operating	10 – 95% Relative Humidity (RH) non-condensing
	Storage	up to 95% Relative Humidity (RH) non-condensing

Tympanic Temperature Module Specifications

Tympanic Temperature Module Performance Specifications		
Temperature Resolution		
0.1°C or 0.1°F		
Response Time		
Less than 2 seconds		
Temperature Accuracy		
Calibrated Accuracy Limits: (Factory)		
Ambient Temperature	Target Temperature	Accuracy
25°C (77°F)	36.7 – 38.9°C (98.1 – 102°F)	±0.1°C (±0.2°F)
16 – 33°C (60.8 – 91.4°F)	33 – 42°C (91.4 – 107.6°F)	±0.2°C (±0.4°F)
Calibrated Accuracy Limits: (after Recalibration using Genius II Checker / Calibrator) ^a		
Ambient Temperature	Target Temperature	Accuracy
16 – 33°C (60.8 – 91.4°F)	36 – 39°C (96.8 – 102.2°F)	±0.2°C (±0.4°F)
16 – 33°C (60.8 – 91.4°F)	< 36 or > 39°C (< 96.8 or > 102.2°F)	±0.3°C (±0.5°F)

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

Alarms

Displayed Temperature Measurement Range (Temperature range depends on the selected reference body site)

Mode	Range °C	Range °F
Ear	33.0 – 42.0	91.4 – 107.6
Oral ^a	33.6 – 42.0	92.5 – 107.6
Core ^a	34.0 – 42.0	93.2 – 107.6
Rectal ^a	34.2 – 42.0	93.6 – 107.6

^a Temperature measured at Ear and corrected to correspond to reference site.

For each available label, a separate set of high limit and low limit alarm limits can be set (Label dependent alarming).

Alarm ^a	Range	Adjustment	Delay
High Limit Alarm	33.5 – 42.0°C (92 – 108°F)	0.5°C steps (33 – 35°C)	Max 12 seconds after displayed value is above the high alarm limit setting for that label.
		0.1°C steps (35 – 42°C)	
		1.0°F steps (92 – 95°F)	
		0.2°F steps (95 – 108 °F)	
Low Limit Alarm	33.0 – 41.9°C (91 – 107°F)	0.5°C steps (33 – 35°C)	Max 12 seconds after displayed value is below the low alarm limit setting for that label.
		0.1°C steps (35 – 42°C)	
		1.0°F steps (91 – 95°F)	
		0.2°F steps (95 – 107°F)	

^a The host monitor software for the Philips Tympanic Thermometer provides the physiological alarms.

Ordering Information

Part Number	Description
866149	Tympanic Temperature Module, including: <ul style="list-style-type: none"> • a Base Station for mounting on a table, wall, or a roll stand. • a starter pack of 96 probe covers.

Part Number	Description
866149 #A01	Adding a 1.5 m, RS232 connection cable for use with: <ul style="list-style-type: none"> • IntelliVue MP5 Patient Monitors with the option #J40 • IntelliVue MP20 to MP90 Patient Monitors with the option #J13 • IntelliVue MX400 to MX800 Patient Monitors with the option #J13 • Avalon FM20 to FM50 Fetal Monitors with the option #J13
866149 #A02	Adding a 3.0 m, RS232 connection cable for use with: <ul style="list-style-type: none"> • IntelliVue MP5 Patient Monitors with the option #J40 • IntelliVue MP20 to MP90 Patient Monitors with the option #J13 • IntelliVue MX400 to MX800 Patient Monitors with the option #J13 • Avalon FM20 to FM50 Fetal Monitors with the option #J13
866149 #A03	Adding a connection cable for use with IntelliVue MP5/MP5SC Patient Monitors with the integrated Tympanic Temperature interface, (monitor fitted with “IR-Temp ready” option ^a).

^a Refer to MP5 and MP5SC TDSs for required options

Accessories

Part Number	Description
9898031 79611	Genius™2 Probe Cover (CE marked), case of 2112 covers.
9898031 79381	Genius™2 Probe Cover (non-CE marked), case of 2112 covers.

Documentation

The Instructions for Use for this module are integrated into the user documentation for the IntelliVue Patient Monitors and Avalon Fetal Monitors. The documentation is shipped with the system ordered.

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866149 complies with the requirements of
the Council Directive 93/42/EEC of 14 June
1993 (Medical Device Directive).

Please visit www.philips.com/



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