



## 9600 Avant<sup>®</sup>

### Tabletop/Portable Digital Pulse Oximeter



### Ultimate Versatility. Unparalleled Performance.

The stylish Avant 9600's simple functionality, quick recharge, and extraordinary 115 hours of memory makes it well-suited for a multitude of applications. The 9600 provides a variety of display indicators to ensure reliable readings for easy patient evaluation. Flexible alarm management options feature locked, latched, unlatched and user-defined defaults for customizable patient settings. The 9600 can also be easily interfaced with various multi-parameter patient monitors.

### Product Highlights

- ✓ Convenient - *Lightweight, compact & durable*
- ✓ Easy-to-Use - *Bright LED displays, large display screen allows clear readability from across the room*
- ✓ Versatile - *Monitor neonates to adults; acute care to homecare*
- ✓ Powerful - *Longest memory available for extended monitoring*
- ✓ Flexible - *Use as standalone device or interface with an assortment of multi-parameter patient monitors*
- ✓ Intuitive - *Three distinct icons offer helpful indications of signal status*

✓ *Where People Make the Difference*



## Flexible & Versatile Alarm Settings

<b>Latched Mode</b>	Audible and visual indication of an alarm continues even after an event has ended, providing immediate indication of current readings along with extended awareness of vital changes.
<b>Unlatched Mode</b>	Audible and visual indication of an alarm state concludes when an event has ended, providing immediate indication of current readings.
<b>Nurse Call</b>	Facility's call indicator light system connects via cable connection, providing additional visual indication of alarms from a distance.
<b>Recall Function</b>	Reinstatement of user's last customized alarm settings, providing parameter continuity and time savings.
<b>Patient Security Mode</b>	Locks alarm limits, volume and time/date settings, prevents unintentional changes, provides automatic recall of locked limits.

## User-Friendly Interface

The Avant® 9600 provides a variety of display indicators to ensure reliable readings for easy patient evaluation.

**Qualitative Pulse Strength** - Color-coded bar graph assists in assessing the patient's status. An audible tone is generated with each pulse; the pitch changes with the patient's saturation level.



**Pulse Quality Indicator** - Detects movement or signal quality changes that may necessitate the need for sensor site stabilization.

**Sensor Indicator** - The sensor icon indicates the lack of sensor presence or the need for sensor attention.



A quick and complete assessment of your patient's oximetry readings is made easier with the combination of information supplied by the Qualitative Pulse Strength bar graph, variable pitch pulse/saturation tone and Pulse Quality Indicator.

## Select Your Options

- ✓ Sensors - Use with Nonin's complete line of PureLight® comfortable and reliable sensors
- ✓ Patient Cables - Optional use of right angle connector or sensor extension cables
- ✓ Nurse Call Cable - A variety of cables are available
- ✓ Rolling Stand - Standard or deluxe 5 point stand increases portability
- ✓ Carrying Case - Convenient for transport & storage
- ✓ Output Options - nVISION® Data Management Software for oximetry screening
  - Portable thermal printer
  - Digital to Analog Converter Module
- ✓ Interface Options - Interfaces with select multi-parameter patient monitors (see your Nonin distributor for a complete list of compatible monitors)



## Specifications

### Oximeter

Oxygen Saturation Range (%SpO <sub>2</sub> )	0% to 100%
Pulse Rate Range	18 to 300 pulses per minute
Displays	3-digit LED's, Tricolor (red, green, amber) Tricolor LED segments Amber LED
Numeric Displays	
Pulse Strength Indicator	
Pulse Quality Indicator	
Accuracy <sup>a</sup>	
Blood Oxygen Saturation (%SpO <sub>2</sub> ±1 SD <sup>b</sup> )	
No Motion: Adults, Pediatrics Neonates	70 - 100% ±2 digits 70 - 100% ±3 digits
Motion: Adults, Pediatrics Neonates	70 - 100% ±2 digits 70 - 100% ±3 digits
Low Perfusion: Adults, Pediatrics Neonates	70 - 100% ±2 digits 70 - 100% ±3 digits
Pulse Rate	
No Motion	18 to 300 bpm ±3 digits
Motion	60 to 240 bpm ±5 digits
Low Perfusion	60 to 240 bpm ±3 digits
Temperature	
Operating	+32° to +122°F (+0° to +50°C)
Storage/Transportation	-22° to +122°F (-30° to +50°C)
Humidity	
Operating	10% to 90% noncondensing
Storage/Transportation	10% to 95% noncondensing
Altitude	
Operating	Up to 40,000 feet (12,192 m)
Power Requirements	
Mains	100-240 VAC 50-60 Hz
DC Input	12 VDC 1.5A AC adapter
Internal Power	
Battery	7.2 volt battery pack (6 cells)
Operating	Minimum 12 hours of continuous operation with a fully charged battery pack
Storage	27 days
Recharge	4 hours
Dimensions	7.25" wide x 5.5" high x 4.5" deep 18.4 cm x 14 cm x 11.4 cm
Weight (excluding Pole Mount System)	2.2 pounds (1 kg)
Memory	115 hours
Warranty	3 years

### Classifications per IEC 60601-1/CSA601.1/UL2601-1

Type of Protection	Class I (when on AC power with 300PS-UNIV battery charger) Class II (when on AC power with 300PS-NA, 300PS-EU, or 300PS-UK battery charger) Internally powered (on battery power)
Degree of Protection	Type BF-Applied Part
Enclosure Degree of Ingress Protection	IPX0
Mode of Operation	Continuous

### Nurse Call

Maximum Voltage	30 V, AC or DC
Maximum Load Current	100mA
Output Impedance	30 ohms max
Output	Normally Open or Normally Closed; switch selectable
Output Connector	0.141" miniature phone jack

<sup>a</sup>Accuracy is expressed for adult patients and determined with the Reusable 8000AA Finger Clip Sensor and 8000J Flex Sensor. All accuracy specifications are results determined by induced hypoxia studies on healthy adult volunteers. Motion accuracy specifications apply to the 8000AA Finger Clip Sensor and 8000J Flex Sensor. The low perfusion specifications apply to monitor performance.

<sup>b</sup>S.D. (Standard Deviation) is a statistical measure; up to 32% of the readings may fall outside these limits.

Quality systems registered to ISO 9001:1994/EN 46001:1996, ISO 13485:1996, and CE marking per Annex II, Clause 3 of EC Directive No. 93/42/EEC concerning medical devices.



Specifications are subject to change without notice.

## Your Partner of Choice

With over 18 years of experience and dedication to the design and support of noninvasive monitoring devices, Nonin has helped many medical professionals meet clinical and economic objectives. Trusted by clinicians worldwide, countless tests are performed every day on thousands of Nonin pulse oximeters in more than 125 countries. Nonin's dedication to technological leadership, precision manufacturing and uncompromised customer support ensures quality products and service you expect.



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✓ Where People Make the Difference

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