DEFAULT ALARM LIMITS and TIME/DATE

Default Alarm Limits are preset on the Avant 9600 oximeter, which may be adjusted prior to use. Default limits are:

- **High SpO₂**: Off
- **High Pulse Rate**: 200 BPM
- **Low SpO₂**: 85%
- **Low Pulse Rate**: 50 BPM

*Caution: Always verify alarm settings when turning on the unit.*

To set Time, Date and Alarm Limits in standard mode, turn the oximeter on and follow these steps:

1. Press the **Limits Button**.
2. Use the + and – buttons to move the value up or down.
3. Press **Limits** again to set the value and move to the next setting.

You can also use the Limits button to review current settings by pressing through each value. You will then see and reset that value with each press.

**Patient Security Mode** locks Limits, Time, Date and other values. See the Operator’s Manual for instructions on Setting and Releasing Patient Security Mode if in use.

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**Visit nonin.com for more information and video tutorials.**

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**Avant® 9600**

SpO₂ Pulse Oximeter

**Use ONLY with compatible Nonin-branded pulse oximeter sensors.**

1. **Select the proper size Nonin-branded sensor.** Place sensor on patient prior to connecting to the oximeter.

2. **Connect Avant 9600 oximeter to wall power, or check battery level prior to use.** Recharge if required. Oximeter runs at least 12 hours on a full battery.

3. **Insert the sensor connector into the sensor port on left side of the oximeter.**

4. **Turn the oximeter on with the On/Off button.** The oximeter will go through a self-check, then begin displaying oxygen saturation (SpO₂) and pulse rate.

   Do not use oximeter if any display segments are missing, or displays do not appear as expected. Refer to the Operator’s Manual for instructions.

   Alarms are disabled for two minutes to allow time for sensor placement and adjustment.
5. **Pulse Signal Strength** is displayed in the center of the screen. A marginal pulse strength will be seen as 3-4 amber bars. Inadequate signal will display as 1-2 red bars and a Low Pulse Signal alarm will occur. Green bars denote a good signal.

A **Pulse Quality Symbol** will blink when poor signal is detected, and remain lit if poor signal occurs for an extended time.

A **Sensor Alarm Symbol** may appear if the sensor becomes disconnected, fails, is incompatible with the oximeter or is not placed properly.

For any of these conditions, check sensor position on the patient, blood flow at the sensor site, warm finger (digit) if necessary, and connection of the sensor to the oximeter. If the situation is not corrected, try a different compatible Nonin-branded sensor.

6. **Power Supply** is indicated in the lower right by a “plug” symbol for wall power, or a battery level symbol if operating on battery only.

The battery symbol will blink when battery level is low, and stay on when critically low. Recharge as soon as possible. The battery will charge on wall power while the oximeter is in use or turned off.

7. **Discontinue Use** by turning the oximeter off with the On/Off button. Then disconnect the sensor plug, and remove the sensor from the patient. If operating on battery power, plug the oximeter power supply into a wall outlet to recharge batteries while not being used. Full re-charge takes approximately 4 hours for a fully depleted battery.

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### DATA STORAGE

The Avant 9600 Oximeter will record 115 hours of SpO₂ and pulse rate data. The memory will then overwrite, providing the most current 115 hours of continuous data. Data can be transferred to Nonin nVISION® Software for storage and analysis. Analog SpO₂ and pulse rate signal can also be sent to other devices. See the Operator’s Manual for details on data handling.

### ALARMS

**A. HIGH PRIORITY Alarms** – If alarms are enabled, the upper and lower SpO₂ and pulse rate limits will appear on the screen during start-up, and an audible and visual alarm will occur if they go out of the limits. A low perfusion condition may generate a High Priority Alarm.

**B. MEDIUM PRIORITY Alarms** – This alarm is for conditions like a low battery, reduced pulse signal strength and other oximeter conditions.

<table>
<thead>
<tr>
<th>High Priority Alarms</th>
<th>Medium Priority Alarms</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 3 Beeps /2 Beeps every 10 seconds</td>
<td>• 3 Beeps every 25 seconds</td>
</tr>
<tr>
<td>• Rapid Red Flash in Alarm Flasher</td>
<td>• Slow Amber Flash in Alarm Flasher</td>
</tr>
</tbody>
</table>

**C. You can Silence Audible Alarms** for two minutes by pressing the alarm silence button. A second press will re-enable the audible alarm. Alarms automatically turn off when the alarm condition is resolved.