# Nonin Technical Bulletin

## Avant® 9600 & Avant 9700 Study Data

**Performance Characteristics Under Conditions of Motion and Low Perfusion**

**Avant 9600 & Avant 9700 with PureSAT® Signal Processing Technology**

| Saturation Accuracy (%$SpO_2$ + 1 SD) 70-100% | | | Pulse rate accuracy 60-240 beats/min | | |
|---|---|---|---|---|---|
| No Motion | Adults/Peds | ± 2 digits | No Motion | Adults/Peds | ± 3 digits |
| | Neonates | ± 3 digits | | Neonates | ± 3 digits |
| Motion | Adults/Peds | ± 2 digits | Motion | Adults/Peds | ± 5 digits |
| | Neonates | ± 3 digits | | Neonates | ± 5 digits |
| Low Perfusion | Adults/Peds | ± 2 digits | Low Perfusion | Adults/Peds | ± 3 digits |
| | Neonates | ± 3 digits | | Neonates | ± 3 digits |

**How was the testing done?**

Saturation testing in a motion environment was conducted on human subjects at the Hypoxia Research Laboratory (Severinghaus) at the University of California, San Francisco. The Radiometer OSM-3 Multi-wavelength CO-oximeter was used as the gold standard for accuracy testing. Protocols for testing were in line with common industry practices and incorporated the Avant 9600 & Avant 9700 using the 8000AA finger clip sensor and the 8000J Flex sensor. Pulse rate motion and low perfusion were tested in-house, utilizing an industry standard simulator.

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