

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.