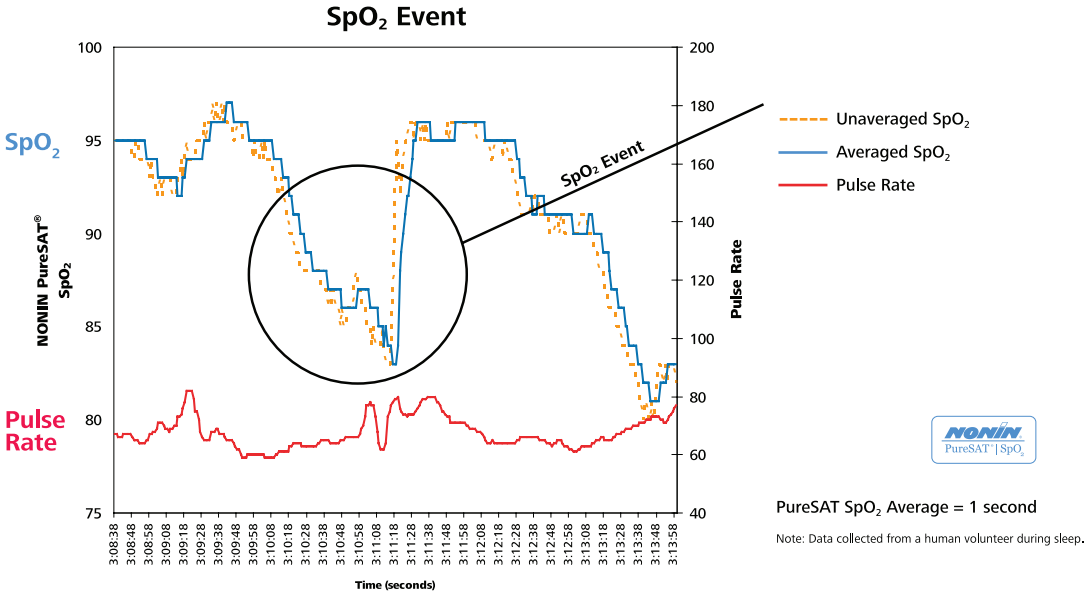
Nonin PureSAT® SpO_2 Averaging

Nonin PureSAT: Intelligent Technology for Quick Results

Nonin Medical's PureSAT pulse oximetry technology utilizes an intelligent, pulse-by-pulse averaging algorithm that is able to adjust with the patient's condition for precision accuracy. The PureSAT averaging algorithm automatically adjusts to provide fast response of **3 seconds or faster** (based on pulse rates 60 BPM and greater) for adult, pediatric and infant/neonate — with no modes to set or adjust. Nonin's intelligent PureSAT technology provides quick averaging and identifies the true pulse for patient assessment. Pure and simple.

In the example below, Nonin's PureSAT SpO_2 average value was plotted along with the unaveraged SpO_2 value taken on each pulse. **The PureSAT SpO_2 averaging equals 1 second.**



Note: Data collected from a human volunteer during sleep.

Frequently-Asked-Question about Nonin Medical's Pulse Oximeter Averaging

Do Nonin Medical pulse oximeters meet the pulse oximetry maximum acceptable signal averaging time of 3 seconds as described in the 2007 *AASM Manual for the Scoring of Sleep and Associated Events* technical specifications and considerations?

Yes. All PureSAT pulse oximeters from Nonin Medical meet the 2007 *AASM Manual for the Scoring of Sleep and Associated Events* technical specifications and considerations. With the AASM clarification, as described in the *AASM Scoring Manual* FAQ, pulse oximeters designed to update the average on each pulse beat must not exceed the maximum SpO_2 averaging time of 3 seconds with pulse rates 80 BPM and above.

Nonin's PureSAT SpO_2 averaging is 3 seconds or faster for pulse rates of 60 BPM or greater — outperforming the AASM's requirement of 80 BPM.

For more information, see R.8 in the *AASM Scoring Manual* FAQ: http://www.aasmnet.org/SMFAQs.aspx

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Right. When you need it.