

Welcome to the Nox SAS — a sleep revolution

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The Nox SAS* sensor

The Nox SAS* sensor is a new, flexible way to record EEG data during polysomnography sleep studies conducted with the Nox A1s. From the hands of physicians in sleep clinics to the desks of sleep scientists at research universities, the SAS is relied on for accurate sleep testing everywhere where sleep happens, with less hassle.

Each SAS wire is only as long as it needs to be. This ensures that there are no tangled, bulky wires to worry about, only smooth and seamless data collection.

A Seamless Sleep Diagnostic Experience

Just as accurate as a traditional EEG head cable, but with less hassle, the SAS hookup is simple. Signals typically derived from the scalp and chin are recorded from the forehead electrodes, so there is no need for scalp EEG electrodes or chin-EMGs. The typical troubles of attaching electrodes on the scalp or managing facial hair are never a problem.

Recent research has shown that the SAS provides a high level of agreement for all sleep stages in adults when compared

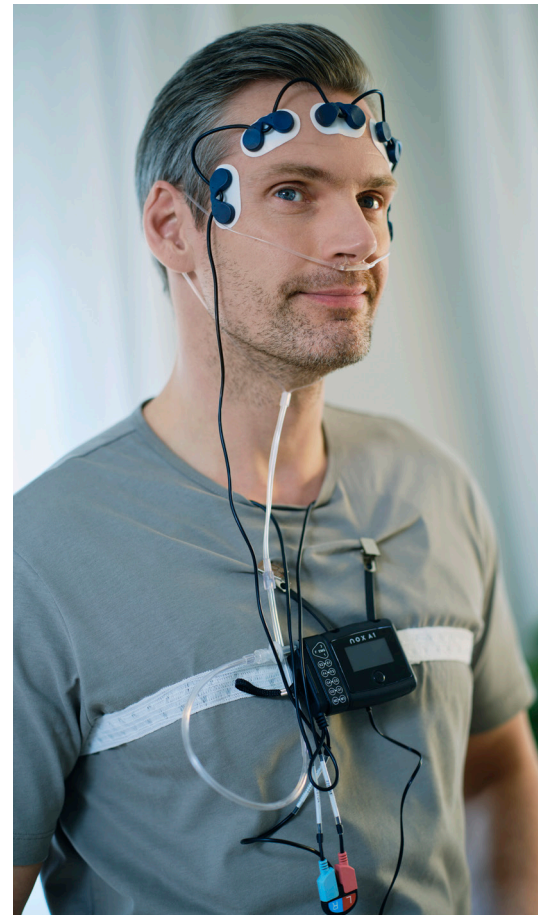
The SAS comes with disposable gel EEG electrodes that are secured to the patient's skin just above the brow. The wires are then snapped in place onto each electrode along the forehead.

The sensor also comes with wireless connectivity, so patients are never tethered to the bed. No need to unhook anything for bathroom trips or to get a sip of water.

to the conventional montage, currently recommended by the American Academy of Sleep Medicine¹.

Additionally, an internal validation study of 204 traditional PSG head cable sleep recordings and 244 SAS sleep recordings collected in a double hook-up configuration from adults in a standard clinical setting found good agreement between the two recording groups.

¹ Punjabi NM, Kaplan PW, Margolick J, Aurora RN. 0319 A Simplified Bipolar Frontal Montage for Recording and Staging Sleep. Sleep. 2018;41:A122-A122. doi:10.1093/sleep/zsy061.318





A Swift Hookup

The SAS sensor is also a time saver. The whole hookup process can be completed in as little as 15 minutes. And with disposable gel sensors, there is no need to spend time on cleaning EEG electrodes.

A flexible sensor, the Nox SAS is used with the Nox A1s sleep test system, and can be applied in the sleep lab or at the patient's home. The Nox SAS aims to make sleep diagnostics accessible no matter where they are needed.

It is even flexible enough to be selfapplied by the patient, bringing polysomnography to the patient's home, and easing the potential burden on sleep clinic staff.

The Precision of the Sleep Lab – Everywhere

A research study of the SAS found that successful and reliable recordings were collected from approximately 85% of the 900 participants on the first attempt, and 88.6% overall after two attempts. The study also demonstrated that the EEG and EOG signals could be acquired without significant duration of artifact².

Then, when each study is complete at the end of the night, artificial intelligence-driven proprietary software developed by Nox Medical data scientists can synthesize the sleep study metrics to give clinicians an accurate picture of their patient's sleep health. The goal is to get the most precise diagnosis, on the first try.



² Punjabi NM, Brown T, Aurora RN, et al. Methods for home-based self-applied polysomnography: the Multicenter AIDS Cohort Study. *Sleep Adv.* 2022;3(1):zpac011. doi:10.1093/sleepadvances/zpac011