NONIN

Beyond Conventional SpO_2 Monitoring

OEM III with High-Resolution Pulse Oximetry

As medical devices increasingly depend on continuous oxygenation data, whole-number SpO_2 measurements can limit visibility into subtle yet clinically meaningful changes.[1] OEM III now offers High-Resolution Pulse Oximetry (HRPO), including reporting of SpO_2 to the tenth of a percent to reveal variability that conventional reporting may overlook in sleep, respiratory, and extended-duration monitoring.

More Resolution. More Insight.

HRPO enables:

- Detection of brief and recurrent desaturation events[1, 2]
- Quantitative analysis of oxygenation variability[2]
- Data-driven screening and therapy-monitoring workflows[3, 4]

HRPO—Now Available in OEM III

OEM III delivers:

- Compact, low-power design for portable and long-term monitoring
- Drop-in compatibility with standard OEM III form factors
- Compatibility with Nonin Medical's PureLight® sensor technology
- Expanded data output without added system complexity

Built on Proven OEM Expertise

With hundreds of OEM partnerships worldwide, Nonin Medical provides pulse oximetry technology trusted across sleep, respiratory, and vital-sign monitoring devices.[5] OEM III with HRPO supports next-generation, data-driven medical device design.

LEARN HOW OEM III WITH HRPO CAN SUPPORT YOUR DEVICE DEVELOPMENT.
nonin.com/OEM3

CONTACT US
nonin.com/oem-contact

[1] Rodrigues Rocha, P., Domingues, D. M., Giampá, S. Q. C., Crema, J. P. W., Soares, F., Genta, P. R., Gozal, D., & Lorenzi-Filho, G. (2025). Impact of oximetry resolution on detection of oxyhemoglobin desaturation events and hypoxic burden in patients with obstructive sleep apnea. Sleep Medicine, 136, Article 106814. https://doi.org/10.1016/j.sleep.2025.106814

[2] Di Fiore, J. M., et al. (2012). Low oxygen saturation target range is associated with increased incidence of intermittent hypoxemia. Journal of Pediatrics, 161(6), 1047–1052. https://doi.org/10.1016/j.jpeds.2012.05.046

[3] Yaddanapudi, S. S., et al. (2018). High-resolution pulse oximetry (HRPO): A cost-effective tool in screening for obstructive sleep apnea (OSA) in acute stroke and predicting outcome. Journal of Stroke and Cerebrovascular Diseases, 27(11), 2986–2992. https://doi.org/10.1016/j.jstrokecerebrovasdis.2018.06.030

[4] Metz, J. E., et al. (2019). High-resolution pulse oximetry and titration of a mandibular advancement device for obstructive sleep apnea. Frontiers in Neurology, 10, Article 757. https://doi.org/10.3389/fneur.2019.00757

[5] Nonin Medical, Inc. Data on File

©2026 Nonin Medical, Inc. All copyrights and trademarks are the property of Nonin Medical, Inc. unless otherwise noted and or used under license. All rights reserved. M-26-011-01