

Consistent multi-site performance

OPM demonstrates closely aligned measurements on wrist and chest, maintaining consistent performance across the full oxygen desaturation range.

Performance across multiple body locations

The figure compares measurements recorded from the OPM device worn on the wrist (purple) and the chest (orange) across 24 study participants. The horizontal axis represents blood oxygen saturation (SaO_2) across the full desaturation range from 100% down to 70%, while the vertical axis shows the ratio derived from red and infrared signals.

Dashed black lines indicate the ARMS reference limits of ± 3.5 . Measurements from both the wrist and chest

remain within these reference limits, with ARMS values of 2.21 for the wrist and 2.52 for the chest.

The close alignment between wrist and chest measurements demonstrates consistent and reliable device performance across both wearable locations throughout the entire 70–100% oxygen desaturation range.

