

SmartSat™ Pulse Oximetry Analyzer
Probe Sensitivity Test:
Reference Values

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Clinical Dynamics Corporation
 10 Capital Drive
 Wallingford, CT 06492
 Telephone: 203.269.0090 • Facsimile: 203.269.3402

The values labeled “Typical” in the table below were obtained by averaging the readings obtained by performing the **SmartSat**’s Probe Sensitivity test on a large number of good pulse oximeter probes. The values labeled “Typical Range” are values at which, when the “probe under test” measures outside this range, it should be considered suspect. Since the pulse oximeter manufacturers have thus far declined to provide absolute limits for these ranges, we can not positively state that probes that exceed these limits are “bad.” However, we can state that they deviate significantly from the “typical” probes of that make and model. In general, when evaluating probes using the Probe Sensitivity test, if you obtain a reading outside the limits, you should take into account other factors. For example, multiple readings (such as Red and Ratio) outside the limits or an out-of-limit reading on a probe that is old or looks worn, is probably an indication of a probe that may malfunction under certain clinical conditions.

Probe Model	Red Typical	Red Typical Range	IR Typical	IR Typical Range	Ratio Typical	Ratio Typical Range
Nellcor DS-100A	158	>79	262	>196	60	30 to 90
Ohmeda Clip Tip	168	>168	268	>244	63	40 to 100