

MarsoniK SPO2

MarsoniK Inc.



Change Log

Date	Changes	Revised by
08/4/2024	First-cut	R. Mani

Contents

MarsoniK SP02 Specification	4
General Description:	4

MarsoniK SP02 Specification

General Description:

The oximeter is perfect for various environments, including high altitudes, outdoors, hospitals, homes, sports, and winter. It is suitable for children, adults, and the elderly and handles conditions like Parkinson's disease and poor blood circulation with ease. Unlike most oximeters, it provides rapid parameter output within 4 to 8 seconds, even in cold environments.

Category	Specification
Purpose	Non-invasive monitoring of blood oxygen saturation (SpO ₂) and pulse rate at home
Device Type	Fingertip pulse oximeter
SpO ₂ Measurement Range	70% – 100%
SpO ₂ Accuracy	±2% (90–100%), ±3% (70–89%)
Pulse Rate Range	30 – 250 bpm
Pulse Rate Accuracy	±2 bpm or ±2% (whichever is greater)
Perfusion Index (PI)	0.2% – 20% (optional feature)
Display Type	OLED color display
Display Parameters	SpO ₂ %, Pulse rate (bpm), Pleth waveform, Battery level
Power Supply	2 × AAA batteries or rechargeable lithium-ion
Battery Life	≥ 20 hours of continuous use
Auto Power-Off	After 5–10 seconds of no signal
User Interface	One-button operation
Alerts	Low battery, Finger not detected, Signal instability
Operating Temperature	5°C – 40°C (41°F – 104°F)
Storage Temperature	-10°C – 50°C (14°F – 122°F)
Humidity Range	15% – 95% non-condensing
Certifications	FDA-cleared

Category	Specification
Material Safety	Latex-free, hypoallergenic, biocompatible materials
Connectivity	Bluetooth
Cleaning Method	Wipe with 70% isopropyl alcohol or approved disinfectant
Calibration	Factory calibrated – no user calibration required
Dimensions	~60 mm × 35 mm × 30 mm
Weight	< 60 g including batteries
Intended Users	Adults and children aged 4+