

HAND OXY⁷⁰¹®

Digital Pulseoximeter

PARSIAN MEDICAL Co.

Digital Portable Pulseoximeter for use in:

- Emergency Units, Car, Air and Ship Ambulances
- Surgical Rooms, Radiology Centers
- Recovery Rooms
- Critical Care units, ICU, NICU, CCU, RCU
- Dental Centers
- Home Care



Continuous Monitoring Parameters:

- SpO2 (%)
- Pulse Rate (bpm)
- Body Temperature (°C)
- Perfusion Index (%)
- Photo-Plethysmography Waveform

Technical Advantages:

- Continuous saving of patient parameters
- USB port with related free software
- Tabletop stand, Ambulance stand, Trolley
- Adjustment for different patient age: Adult, Pediatric, Neonatal
- Motion artifact rejection technology
- Secure Housing against impact and light weight
- Internal Rechargeable Battery with more than 6 Hours working
- TFT LCD with Capacitive Touch



Oximetry performance is the most critical right when conditions are most difficult. Parsian's PM-2017 and PM-2019 OEM modules are designed to substantially improve performance and eliminate nuisance alarms associated with motion and low perfusion.

Parsian's PM-2019 support digital sensor which amplify and digitize the signal in the sensor, resulting in a stronger and higher quality signal being received by the host system.

Parsian's PM-2017 digitize signal in OEM board base on precise algorithm and can accure results for special patient condition.

Electrical Characteristics	
Power Adaptor	220VAC to 5VDC, 2A
Battery	3.6 VDC; Li-Ion, Rechargeable, Maximum Protection
Battery Operating Time	6 hours
Battery Charging Time	3.5 hours

Measurment Range	
SpO2	30% - 100%
Pulse Rate	30 - 240 bpm (beat per minute)
Temperature	0.0° - 60.0°C (32.0° - 138.9°F)
Perfusion	0.2% - 20%

Resolution	
SpO2	1%
Pulse Rate	1 bpm
Temperature	0.1°C

Accuracy Pulse Rate		
SpO2 (Functional)	No Motion and Normal Perfusion	(70-100%) $\pm 2\%$
Pulse Rate	No Motion and Normal Perfusion	(30-240 bpm) ± 3 bpm
SpO2 (Functional)	Neonatal* No Motion and Normal Perfusion	(70-100%) $\pm 2\%$
SpO2 (Functional)	Motion, Low Perfusion <0.2%	(70-100%) $\pm 3\%$
Pulse Rate	Motion, Low Perfusion <0.2%	(30-240 bpm) ± 5 bpm
Temperature	Not Including Sensor Accuracy	(0-70°C) 1-2%

*Neonatal testing was completed on healthy adult subject and 1% was added to the % arms to account for fatal haemoglobin effects.

IEC (International Electrotechnical Commission) Classifications	
Type of Protection	CLASS II
Degree of Protection	Type BF
Mode of Protection	Continuous
Degree of Protection Against Ingress of Liquids	Ordinary (IPX2)
Recommended Methods of Sterilization or Disinfection	Using a soaked swab with alcohol for the external parts of system, SpO2 sensor and extension cable for appropriate cleaning instructions.
Degree of Safety of Application in the Presence of a Flammable Anesthetic	Not suitable for use in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.

⚠ Do not use functional tester to assess the accuracy of pulseoximeter probes and monitor.



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Sensor LEDs	
Nominal wavelength and nominal power output values	(RED) 660 nm - 1.8 mw and (RED) 905 nm - 2.0 mw

Display	
Type	TFT Liquid Crystal Display (LCD) + Capacitive Touch
Data Displayed	SpO2, Pulse Rate, Plethysmograph waveform, Temperature, Alarms and Status Message

Note: There is no display delay for the calculated value.

Alarm Limits	
Low SpO2	1% - 99%
High SpO2	2% - 100%
Low Pulse Rate	30 bpm - 229 bpm
High Pulse Rate	31 bpm - 230 bpm

Unit Dimensions & Weight	
Dimensions	22 x 10 x 4 cm
Weight	455 gr.



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