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PARA 5 MS is a 5 parameter with 12.1" colour monitor. User friendly menu driven settings through encoder, It is used in ICU as a bedside monitor.

Parameters are as follows,

- ECG
- MASIMO SET® SpO2
- NIBP
- Respiration
- Temperature

1. General

Dimensions	: 276mm X 336mm X 161mm (H x W x D)
Weight	: Approx. 5 Kg with in-built battery.
Display	: 12.1" Color monitor
Resolution	: 800 x 600 pixels
Language	: English
User Interface	: Encoder & keyboard
Alarm	: User adjustable high & low limit, Audible and visual Alarming
Trend	: 24 hrs Graphical and tabular trend of all parameter
Network	: Connectivity to central monitoring system (Panorama)

2. Power supply


Input voltage range	: 150-270VAC, 50 / 60 Hz 1 Ø.
Battery type	: 12V/4.5Ah (in-built) sealed lead acid
Charging time	: 10 to 12 hours (typically)
Backup	: 3hrs on full charge
Power ratings	: 40W

3. Environmental

Operating Temp	: -5 °C to +45 °C
Humidity	: up to 95 % non-condensing.

4. ECG

Parameter	: HR
Frequency response:	0.5 Hz to 35 Hz
Lead selection	: Lead I, II, III, aVR, aVL, aVF and V
Measurement HR range:	10 to 250 bpm.

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Gain : 0.5, 1.0, and 2.0.
CMRR : > 90 db.
Sweep speed : 12.5, 25.0, 50.0 mm/S.
Accuracy of HR : +/- 1 bpm
Beep on every QRS detected

5. RESPIRATION

Parameter : Respiration rate
Measurement Method: Impedance between RA-LL
Measurement Range : 1 to 120 bpm
Accuracy : +/-2 bpm

6. Masimo SET[®] SpO2

Probe : Masimo sensors and patient cables.
Trend : 24 hrs Graphical and Tabular
Pulse beep pitch variation changes with oxygen saturation

- **Range**

Saturation (%SpO₂) : 1% - 100%
Pulse Rate (bpm) : 25 - 240
Perfusion : 0.02% - 20%


- **Accuracy**

Saturation (%SpO₂) During No Motion conditions
Adults, Pediatrics : 70% - 100% +- 2 digits
Neonates : 70% - 100% +- 3 digits

Saturation (%SpO₂) During Motion conditions
Adults, Pediatrics : 70% - 100% +- 3 digits
Neonates : 70% - 100% +- 3 digits

Pulse Rate (bpm) - During No Motion conditions
Adults, Pediatrics, Neonates : 25 to 240 +- 3 digits

Pulse Rate (bpm) - During Motion conditions
Adults, Pediatrics, Neonates : 25 to 240 +- 5 digits

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- **Resolution**

Saturation (%SpO₂) : 1%
Pulse Rate (bpm) : 1

Settings

Averaging mode: 2, 4, 8,10, 12, 14 or 16 seconds
Sensitivity: Normal, Maximum, and APOD
Smart Tone ON/OFF
Fast SAT ON/OFF

Display/Indicators

SpO₂, pulse rate, Signal IQ, perfusion index, Plethysmograph

7. NIBP

Parameter : Systolic, Diastolic and Mean
Measurement Method: Oscillometric
Measurement Range : 10 to 250
Accuracy : +/-3mmHg
Time interval : User selectable 2 min to 250 min
Measurement Mode : Manual, Automatic and STAT
Measurement Range of cuff pressure: 0 – 250 mmHg
Cuff : Single tube with Velcro
Cuff deflation : Automatic
Patient Type : Adult, Pediatric, Neonate

8. TEMPERATURE

Parameter : Temperature
Measurement Range : 5 to 50 °C OR 41 to 122 °F
Temperature unit : Celsius OR Fahrenheit


❖ **Settings**

- Limit setting for individual parameter
- Facility to set default settings.

❖ **Keys:**

Following hotkeys are provided for fast and easy operation

- Alarm ON / OFF
- QRS Beep ON / OFF
- Take BP
- Home
- Power

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❖ **Knobs:**

- Encoder interface for browsing
- QRS beep volume knob

❖ **Accessories**

Sr.No.	Material Name	Qty.
	list of Accessories for PARA 5 MS	
1	ECG Cable 5 lead	1
2	M-LNCS Reusable Finger Clip Sensor for SpO2	1
3	M-LNC-10 series patient cable for SpO2	1
4	Adult NIBP Cuff	1
5	Adult NIBP Cuff Extension Tube	1
6	Temperature probe (Surface)	1
7	Mains Cord (IEC type)	1
8	User Manual	1
9	Fuse 5A, 20 mm slow blow fuse	2
10	Disposable Electrode	10
	optional	
1	SpO2 finger probe (Neonatal)	1
2	SpO2 finger probe (Paediatric)	1
3	NIBP cuff (Paediatric)	1
4	NIBP cuff (NeoNatal)	1

* Due to our continuous product improvement programme, the specification may change without prior notice.