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ESN MS monitor with 7" colour TFT. User friendly menu driven settings through encoder, It is used in ICU as a bedside monitor.

- Parameters are as follows,
 - ECG
 - SpO2
 - NIBP

1. General

Dimensions	: 230mm X 200mm X 185mm (LXBXH)
Weight	: Approx.2.7kg. with in built battery.
Display	: 7" Color monitor
Resolution	: 800 x 480 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	: 150 - 260 VAC, 50 Hz, 1 Ø.
Output	: 18V DC @ 1.2 A.
Battery	: 12 V /1.2 Ah (in built) sealed lead acid
Back-up time	: 2-3 hrs on full charge
Power consumption	: < 30 Watts
Charging Time	: 10 to 12 hours (typically)

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.
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	

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5. 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

- **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

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6. NIBP

Method	: Oscillometric
Range	: 10 to 250
Accuracy	: +/-3mmHg
Time interval	: User selectable 3 min. to 250 min.
Cuff	: Single tube with Velcro.
Cuff deflation	: Automatic.
NIBP mode	: Adult, Pediatric, Neonatal

❖ 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

❖ Knobs:

- Encoder interface for browsing
- QRS beep volume knob

❖ List of accessories for ESN MS

Sr.No.	Material Name	Qty.
1	ECG Cable 5 lead	1
2	SpO2 finger probe (Adult)	1
3	NIBP Cuff (with 2 meter tube of cuff)	1
	NIBP cuff with extension	1
4	Adapter 18V/1.2A	1
5	User Manual	1
6	Disposable Electrode	10
7	Fuse Slow blow 3A, 20mm slow blow fuse	2

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