MEC-2000

Patient Monitor

- 12.1" color TFT with maximum 8 waveforms
- Suitable for adult, pediatric and neonatal patients
- Parameters including ECG, RESP, SpO₂, NIBP, 2-TEMP, 2-IBP, C.O., EtCO₂
- 96-hour graphic and tabular trends of all parameters
- Optional built-in recorder and CF card (for power off storage)
- Networkable with central monitoring system





MEC-2000 Patient Monitor

Technical Specifications

Trace.

IEC60601-1 approved

Dimension and Weight

318mm (W) x 270mm (H) x 145mm (D) Dimension:

Weiaht: 4.7 ka

Operation Environment

Power requirement: AC100-240V, 50Hz/60Hz

Performance Specifications

Display: 12.1" color TFT (diagonal)

> Rolling and refreshing waveform display 8 waveforms

Resolution: 800x600

Multi displays selectable:

Standard screen display Trend coexist screen display OxyCRG screen display Viewbed screen display Large-font screen display

Lead-Acid battery: Rechargeable

(for 2 pieces) Maximum 12 hours for charging:

2 hours for continuous working

Trend time: 1-96 hours

Alarm: User-adjustable High and Low limits

10-level audible and visual alarm

Networkina: Connected to central monitoring system Recorder: Built-in, thermal array, 2 channels

Record mode: manual, on alarm,

time-defined, etc.

Print speed: 25mm/s, 50mm/s

ECG

Lead type: 5-lead and 3-lead selectable

Input: 5 leadwire cable: RA; LA; RL; LL; V

(or R; L; N; F;C)

3 leadwire cable: RA; LA; LL (or R; L; F)

Lead selection: 5 lead: I; II; III; avR; avL; avF; V

3 Lead: I: II: III:

Gain selection: x0.125; x0.25; x0.5; x1; x2; auto Sweep speed: 12.5mm/s, 25mm/s, 50mm/s

Heart Rate range: Adult: 15-300bpm,

Pediatric/Neonate 15-350bpm

Resolution: 1hnm

Accuracy: $\pm\,1\text{bpm}$ or $\pm\,1\%$, whichever is greater

Bandwidth: Diagnostic mode: 0.05~100Hz Monitoring mode: 0.5~40Hz

Surgical monde: 1~20Hz

Protection: Withstand 4000VAC/50Hz voltage in

isolation. Against electrosurgical interference and defibrillation

Scaling Signal: 1mV ±5% Alarm range: 15~350bpm S-T segment detection: YES

Measurement range: -2.0mV~2.0mV

Alarm range: -2.0mV~2.0mV

Arr. Analysis:

YES, audible and visual alarm, Alarm:

alarm events recallable

Pace detection:

Respiration

Thoracic impedance Method: Range: Adult: 0-120BrPM:

Neonata:/Pediatric: 0-150BrPM Appea alarm:

Alarm: YFS audible and visual alarm.

alarm event recallable

NIRP

Method: Automatic oscillometric Operation modes: Manual/Automatic/Continuous

Auto measure time: Adjustable

Measurement unit: mmHg / kPa selectable Measurement type: Systolic, Diastolic, Mean

Measurement range: Range of Systolic pressure:

> Adult mode: 40-270mmHa Pediatric mode: 40-200mmHg Neonatal mode: 40-135mmHg

Range of Diastolic pressure:

Adult mode: 10-210mmHg Pediatric mode: 10-150mmHg Neonatal mode: 10-100mmHg

Range of Mean pressure:

Adult mode: 20-230mmHg Pediatric mode: 20-165mmHg Neonatal mode: 20-110mmHg

Accuracy of blood pressure measurement: The mean error shall be less than ± 5 mmHg The standard deviation shall be less than ± 8 mmHg Over-pressure protection: Double safety protection

Resolution: 1mmHg

Alarm: Systolic, Diastolic, Mean PR from NIBP: Measurement 40~240 bpm

> Resolution 1 bpm Accuracy ±3bpm or ±3%

whichever is greater

SpO₂

Range: 0~100% Resolution: 1%

Accuracy:

 \pm 2% (70%~100%, Adult/Pediatric) +3% (70%~100%, Neonate)

0~69% unspecified Alarm range: 1~100%

Pulse Rate: Range: 20~254bpm

Resolution: 1bpm

Accuracy: ± 3 bpm(non-motion);

 \pm 5bpm(motion)

Temperature

0~50°C(32~122°F) Range:

Resolution: 0.1℃ Accuracy: ±0.1℃

Channel: Dual-channel, provide T1: T2: △T Alarm: 3-level audible and visual alarm

IRP Range:

-50~300mmHa

Channel: 2 channels

Pressure Transducer: Sensitivity: 5 µ V/V/mmHg Impedance range: 300~3000 Ω Pressure names: ART, PA, CVP, RAP, LAP, ICP, P1, P2

Resolution: 1 mmHg

± 2% or ± 1 mmHg whichever is greater Accuracy:

Alarm range: -10~300mmHa PR from IBP: Range & Accuracy:

25 \sim 200 bpm \pm 1 BPM or \pm 1% whichever is greater 201 \sim 350 bpm \pm 2%

Resolution: 1 bpm

C.O.(Cardiac Output) Method:

Themodilution CO:0.1~20 I/min Range:

> TB: 23~43°C TI: 0~27℃ CO:0.1 l/min

TB: 0.1 °C

TI: 01 ℃ CO \pm 5% or 0.1 l/min

TB: ±0.1℃

TI: +01°C

Parameter output: Cardiac output; Hemodynamics

calculation

EtCO.

Resolution:

Accuracy:

Method: Infrared Absorption Mode: Sidestream Range: EtCO₃: 0~99mmHg Accuracy:

 ± 2 mmHg(0~40mmHg) \pm 5% of reading (41~76mmHg), \pm 10% of reading (77~99mmHg)

Sampling rate: 70,100ml/min

Sampling rate accuracy: ± 15 or 15 ml/min

Start-up time:

<1min. the module enters the warming up status after the start up.

10 minutes later, it enters the ready-to-measure status

Respiration rate: 0~120BrPM ±2BrPM (0~70BrPM) Accuracy: ±5BrPM (>70BrPM)

Response time: When measured with a neonatal watertrap

and a 2.5 m-long neonatal sampling line:

<3.5 s @ 100 ml/min <4 s @ 70 ml/min

When measured with an adult watertrap

and a 2.5 m-long adult sampling line: <5.5 s @ 100 ml/min

<7 s @ 70 ml/min

Standard Configuration: ECG. NIBP. RESP. Mindray SpO2, PR. Dual-TEMP. Lead Acid Battery

Optional Configuration: Dual-IBP, CO, EtCO₂ (side-stream), Thermal recorder, CF Card (for power off storage)

DISTRIBUTOR:

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Mindray is listed on the NYSE under the symbol "MR"

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