



NEW

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

Safety

IEC60601-1 approved

Dimension and Weight

Dimension: 318mm (W) x 270mm (H) x 145mm (D)
Weight: 4.7 kg

Operation Environment

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

Performance Specifications

Display: 12.1" color TFT(diagonal)
Rolling and refreshing waveform display
Trace: 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: 1-96hours

Alarm: User-adjustable High and Low limits
3-level audible and visual alarm

Networking: 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: ± 1 bpm

Accuracy: ± 1 bpm or $\pm 1\%$, whichever is greater

Bandwidth: Diagnostic mode: 0.05~100Hz

Monitoring mode: 0.5~40Hz

Surgical mode: 1~20Hz

Protection: Withstand 4000VAC/50Hz voltage in isolation. Against electrosurgical interference and defibrillation

Scaling Signal: 1mV $\pm 5\%$

Alarm range: 15~350bpm

S-T segment detection: YES

Measurement range: -2.0mV~2.0mV

Alarm range: -2.0mV~2.0mV

Arrhythmia analysis: YES

Alarm: YES, audible and visual alarm, alarm events recallable

Pace detection: YES

Respiration

Method: Thoracic impedance

Measurement Range: Adult: 0-120BrPM;
Neonata;/Pediatric: 0-150BrPM

Apnea alarm: YES

Alarm: YES, audible and visual alarm, alarm event recallable

NIBP

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: 40-270mmHg

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

SpO₂

Measurement range: 0~100%

Resolution: 1%

Accuracy:

$\pm 2\%$ (70%~100%, Adult/Pediatric, non-motion)

$\pm 3\%$ (70%~100%, Neonate, non-motion)

$\pm 3\%$ (70%~100%, Adult/Pediatric/Neonate, motion)
0~69% unspecified

Alarm range: 1~100%

Pulse Rate: Range: 20~254bpm

Resolution: 1bpm

Accuracy: ± 3 bpm(non-motion);
 ± 5 bpm(motion)

Temperature

Measurement: Range: 0~50°C(32~122°F)

Resolution: 0.1°C

Accuracy: ± 0.1 °C

Channel: Dual-channel, provide T1; T2; ΔT

Alarm: 3-level audible and visual alarm

IBP

Measurement range: -50~300mmHg

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

Accuracy: $\pm 2\%$ or ± 1 mmHg whichever is greater

Alarm range: -10~300mmHg

C.O.(Cardiac Output)

Method: Thermo dilution

Measurement range: CO: 0.1~20l/min

TB: 23~43°C

TI: 0~27°C

Resolution: CO: 0.1 l/min

TB: 0.1°C

TI: 0.1°C

Accuracy: CO $\pm 5\%$ or 0.1 l/min

TB: ± 0.1 °C

TI: ± 0.1 °C

Parameter output: Cardiac output; Hemodynamics calculation

EtCO₂

Method: Infrared Absorption

Measurement Mode: Sidestream

Measurement range: EtCO₂: 0~99mmHg

Accuracy: ± 2 mmHg(0~40mmHg)

$\pm 5\%$ of reading (41~76mmHg),

$\pm 10\%$ of reading (77~99mmHg)

Sampling rate: 100 or 150ml/min

Sampling rate accuracy: 0.15

Start-up time:

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

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

Respiration rate: 0~120BrPM

Respiration rate accuracy: ± 2 BrPM (0~70BrPM)

± 5 BrPM (>70BrPM)

Response time: <240ms(10% to 90%)

Delay time: <2s(Sampling line length: 7inches; internal diameter: 0.055 inches, sampling gasflow rate: 150ml/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)



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