MEC-2000

Patient Monitor

- 12.1" color TFT with maximum 8 waveforms
- Suitable for adult, pediatric and neonatal patients
- Parameters including ECG, RESP, SpO_2, NIBP,2-TEMP, 2-IBP, C.O., $EtCO_2$
- 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

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MEC-2000
Patient Monitor

Parameters: ECG, RESP, NIBP, SpO_2, 2-TEMP, 2-IBP, C.O, $EtCO_2$

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: 1-96 hours
Alarm: User-adjustable High and Low limits
10-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: 1bpm
Accuracy: ±1bpm or ±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
Alarm: YES, audible and visual alarm, alarm events recallable
Pace detection: YES

Respiration
Method: Thoracic impedance
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±5mmHg
The standard deviation shall be less than±8mmHg
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

SpO_2
Range: 0~100%
Resolution: 1%
Accuracy:
±2% (70%~100%, Adult/Pediatric)
±3% (70%~100%, Neonate)
0~69% unspecified
Alarm range: 1~100%
Pulse Rate: Range: 20~254bpm
Resolution: 1bpm
Accuracy: ±3bpm(non-motion);
±5bpm(motion)

Temperature
Range: 0~50℃(32~122℉)
Resolution: 0.1℃
Accuracy: ±0.1℃
Channel: Dual-channel, provide T1; T2; △T
Alarm: 3-level audible and visual alarm

IBP
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: ± 2% or ± 1 mmHg whichever is greater
Alarm range: -10~300mmHg
PR from IBP : Range & Accuracy:
25 ～200 bpm ±1 BPM or ±1% whichever is greater
201 ～350 bpm ± 2%
Resolution: 1 bpm

C.O.(Cardiac Output)
Method: Themodilution
Range: CO:0.1~20 l/min
TB: 23~43℃
TI: 0~27℃
Resolution: CO:0.1 l/min
TB: 0.1℃
TI: 01℃
Accuracy: CO±5% or 0.1 l/min
TB: ±0.1℃
TI: ±01℃
Parameter output: Cardiac output; Hemodynamics calculation

$EtCO_2$
Method: Infrared Absorption
Mode: Sidestream
Range: $EtCO_2$: 0~99mmHg
Accuracy: ±2mmHg(0~40mmHg)
±5% of reading (41~76mmHg),
±10% of reading (77~99mmHg)
Sampling rate: 70,100ml/min
Sampling rate accuracy: ±15or 15ml/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
Accuracy: ±2BrPM (0~70BrPM)
±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 SpO_2, PR, Dual-TEMP, Lead Acid Battery
Optional Configuration: Dual-IBP, CO, $EtCO_2$ (side-stream), Thermal recorder, CF Card (for power off storage)

DISTRIBUTOR:

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P/N:ENG-MEC2000-210285-20100125

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