

MULTIPARAMETER PATIENT MONITOR

4850 MPM



Large Number Display



Dynamic Trend Mode



OxyCRG View

- 10.4" Color TFT Display with maximum 11 waveforms
- Standard Configuration - 5 Parameters - ECG, SpO₂, NIBP, Respiration, Temperature
- Upgradeable to etCO₂, Dual IBP, Thermal Recorder
- Display of 7-Lead ECG Waveforms in one screen
- Arrhythmia and ST Segment Analysis
- 60 seconds full disclosure waveforms review
- Selectable Layout - Standard Display, Large Number, Dynamic Trend & OxyCRG View
- Offline Trends available - 168 hours, 1500 sets NIBP, 100 Alarm events
- Trends - Graphical/Tabular, Arrhythmia Events & Technical Alarms Review
- Drug Dose Calculation
- Suitable for Adult, Pediatric and Neonate
- Central Monitoring/Network capability through LAN Ethernet
- USB port for saving Offline Memory
- VGA Port for External Display

Emco Meditek, an ISO9001:2008 & ISO13485:2003 certified company, was formed in the year 1989 with the main objective of manufacturing and marketing of Electronic Medical Equipment. The equipment are designed and manufactured indigenously with the assistance of technology obtained from leading Medical Equipment manufacturing companies around the world especially USA, UK and Germany.

ISO 9001:2008



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4850 MPM



PORTABLE MULTIPARAMETER PATIENT MONITOR

Technical Specifications

Classification

Anti-Electroshock type : Class I / Internal Powered Equip
EMC Type : Class A
Anti-Electroshock degree : ECG/TEMP/IBP - Type CF
SpO₂ /NIBP/CO₂ - Type BF
Ingress Protection : IPX1
Safety : IEC 60601-1+A1+A2; IEC 60601-1-2+A1

Physical Specification

Device dimension : 304(W) x 279(H) x 150(D) mm
Weight : Standard Configuration 4kg (with Battery)

Display

Type : Color TFT LCD 10.4"
Resolution : 800 x 600 pixels
Traces Displayed : up to 8
Indicators : Power LED, Alarm LED, Charge LED

Working Environment

Ambient Temperature : 0 to +40 °C
Humidity : 15% - 80% Non-Condensing

Storage Environment

Ambient Temperature : -20 to +55°C
Humidity : 10% - 93% Non-Condensing

Power Supply

Input : 100 - 250V AC, 50/60HZ, Pmax=140VA
Battery Backup : > 2 hours
Battery Type : Rechargeable Li-ion 11.1VDC, 4800mAh
Recharging time : 8 hours (90% capacity)

Data Output Ports

USB Port, RJ-45 Ethernet (LAN) Port, SD Card
WLAN Access Point & VGA Output (optional)

SpO₂ & Pulse Rate (ISO9919)

Measurement & Alarm Range : 0 - 100%
Resolution : 1%
Accuracy : ± 2% (70-100%)
PR Measurement & Alarm Range : 20-254 bpm
Resolution : 1 bpm
Accuracy : ± 2 bpm (70-100%)

Respiration

Method : Trans-thoracic impedance (user selectable leads)
RR Measurement range : Adult : 0-120 rpm
Neo/Ped : 0-150 rpm
Resolution : 1 rpm
Accuracy : ± 2 rpm or ± 2% (greater)
Apnea Alarm Threshold : 10 - 40s
Alarm : Yes, audible and Visual Alarm
Sweep Speed : 6.25, 12.5, 25 mm/s

ECG

Lead Type : 5-lead /3-lead selectable
3 leadwire cable : RA; LA; LL or R; L; F
5 leadwire Cable : RA; LA; RL; LL; V or R; L; N; F; C
Lead Selection : 3-lead: I; II; III;
5-lead: I; II; III; aVR; aVL; aVF; V

Gains Selection : x0.25; x0.5; x1; x2; x4; auto
Sweep Speed : 12.5, 25, 50mm/s
ECG HR Range : Adult / Pediatric : 15-300bpm
Neonate : 15-350bpm

Resolution & Accuracy : ± 1bpm or 1% (greater)
Bandwidth : Diagnostic mode : 0.05 -100 Hz
Monitor mode : 0.5 - 40 Hz
Operation mode : 1.0 - 25 Hz

CMRR : > 90 dB
Protection : Withstand 8000VAC/50Hz voltage in isolation
against Defibrillation and Electrosurgical interference
ST Segment Detection : Measurement range : -2.0 to +2.0mV
ST Alarm range : -2.0 to +2.0mV
ST Segment Arrhythmia analysis and categorization
ARR Alarm : Audible and Visual Alarm, Alarm events Recallable
Pacemaker detection and 13 types abnormal status detectable
IEC 60601-2-25; AAMI EC 11/EC 13; IEC 60601-2-27

NIBP (IEC 60601-2-30)

Method : Automatic Oscillometric
Operation modes : Manual/Auto/Stat
Auto measurement time interval : Adjustable
1-5/10/15/30/60/90/120/240/480 Minutes
Measurement types : Systolic, Diastolic, Mean
Measurement Pressure range

Adult Systolic : 40 - 270 mmHg
Diastolic : 10 - 210 mmHg
Mean : 20 - 230 mmHg
Pediatric Systolic : 40 - 200 mmHg
Diastolic : 10 - 150 mmHg
Mean : 20 - 165 mmHg
Neonate Systolic : 40 - 135 mmHg
Diastolic : 10 - 100 mmHg
Mean : 20 - 110 mmHg

Cuff Pressure Range : 0-300 (Adult), 0-150 (Neonate) mmHg
Over-Pressure Protection : Dual Safety Protection
Resolution : 1mmHg
Accuracy : ± 5mmHg (Mean Error)
Alarm : Systolic, Diastolic, Mean
Typical Measuring Period : 25-40 sec

Temperature (2 Channels, 1 Probe by Default)

Measurement & Alarm Range : 0~50 °C
Resolution : 0.1 °C
Accuracy : ± 0.1 °C
Refresh Time : Approx 1 sec
IEC 12470-4

IBP (2 Channels) (IEC 60601-2-34) (Optional)

Labels : ART, PA, CVP, RAP, LAP, ICP
Measurement Range : -50 to 400 mmHg
Resolution : 1 mmHg
Accuracy : ± 2% or ± 1 mmHg (greater)
Sensitivity : 5 µV/mmHg
Impedance range : 300-3000 Ω
Meas. range : ART 0 ~ 300 mmHg
PA -6 ~ 120 mmHg
CVP/RAP/LAP/ICP -10 ~ 40 mmHg

etCO₂ (Respironics LoFlo Sidestream) (Optional)

Principle of Operation : Non-dispersive Infrared (NDIR),
Single Beam, Dual wavelength, no moving parts
Sampling Rate : 50 ± 10 ml/min
Range : 0 to 150 mmHg (0 to 19.7 %Vol, 0 to 20 KPa)
Accuracy : ±2 mmHg 0 to 40mmHg
±5% of reading 41 to 70 mmHg
±8% of reading 71 to 100 mmHg
±10% of reading 101 to 150 mmHg
±12% of reading Above 80bpm Respiration
Respiration Range : 2 ~ 150 breaths per minute (bpm)
Resp. Accuracy : ±1 breath
Resp. Resolution : 1 bpm
Calibration : No routine user calibration required

etCO₂ (Respironics CapnoStat Mainstream) (Optional)

Principle of Operation : Non-dispersive Infrared (NDIR),
Single Beam, Dual wavelength, no moving parts
Range : 0 to 150 mmHg (0 to 19.7 %Vol, 0 to 20 KPa)
Accuracy : ±2 mmHg 0 to 40mmHg
±5% of reading 41 to 70 mmHg
±8% of reading 71 to 100 mmHg
±10% of reading 101 to 150 mmHg
Respiration Range : 2 ~ 150 breaths per minute (bpm)
Resp. Accuracy : ±1 breath
Resp. Resolution : 1 bpm
Calibration : No routine user calibration required. An airway
adapter zero is required when changing to a different style
of airway adapter.

Recorder (Optional)

Built-in, direct thermal pixel array recorder
Up to 7 channels printing
Print Speed : 25mm/s
Paper width : 112 mm

Specifications subject to change without prior notice



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Authorised Sales & Services for NICU / ICU Care Equipment