

MULTIPARAMETER PATIENT MONITOR

EMCO MPM 4870C



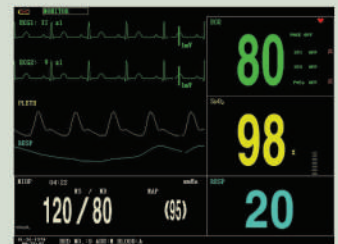
12.1"

Standard Parameters:
3/5-lead ECG, RESP, SpO2,
NIBP,TEMP

Optional Parameters



- 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
- Selectable Layout Standard Display, Large Font, Trend Screen & OxyCRG View
- Offline Trends available 480 hours, 4800 sets NIBP, 500 Alarm events
- Trends Graphical/Tabular, Arrhythmia Events & Technical Alarms Review
- Indicators- Alarm LED, Battery LED, AC Power LED
- Drug Dose Calculation
- Suitable for Adult, Pediatric and Neonate
- Central Monitoring/Network capability through LAN Ethernet
- USB port for saving Offline Memory
- Rechargeable battery with 3 hours back-up
- USB Port (2), RJ-45 Ethernet Port (HL7/HIS Connection)
- Recorder, VGA Output, Defib Proof & Sync (Optional)



Big font interface



OxyCRG interface



7-lead full screen interface

Optional Features



Emco Meditek, an ISO9001 & ISO13485 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.



EMCO MEDITEK® PVT. LTD.

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Technical Specifications

Classification

Anti-Electroshock type : Class I / Internal Powered Equip
EMC Type : Class A
Anti-Electroshock degree : SpO₂ /NIBP/CO₂ - Type BF
ECG/TEMP/IBP - Type CF (Defibrillator proof)
Ingress Protection : IPX2
Safety : IEC 60601-1, IEC 60601-1-8, IEC 60601-2-27
EN 1060-3, IEC 80601-2-30, IEC60601-2-34,
IEC60601-2-49 ISO 80601-2-56 ISO 80601-2-61

Physical Specification

Device dimension : 319(W) x 298(H) x 145(D) mm
Weight : Standard Configuration - 4kg (with Battery)

Display

Type : Color TFT LCD 12.1"
Resolution : 800 x 600 pixels
Traces Displayed : up to 8
Indicators : Alarm LED, Battery LED, AC Power LED

Working Environment

Ambient Temperature : +5 ~ +40 °C
Humidity : 15% ~ 85% Non-Condensing

Storage Environment

Ambient Temperature : -20 to +55°C
Humidity : < 95% Non-Condensing

Power Supply

Input : 100 ~ 240V AC, 50/60HZ, Pmax=150VA
Battery Backup : 3 hours
Battery Type : Rechargeable Li-ion 7.4VDC, 5000mAh
Recharging time : 4 hours (90% capacity)

Data Output Ports

USB Port (2), RJ-45 Ethernet Port (HL7/HIS Connection)
Optional - Nurse Call, VGA Output, Defib Sync

SpO₂

Measurement & Alarm Range : 0 ~ 100%
Resolution : 1%
Accuracy : ± 2% (70 ~ 100%)

Pulse Rate (from SpO₂)

PR Measurement & Alarm Range : 25 ~ 250 bpm
Resolution : 1 bpm
Accuracy : ± 2 bpm ± 2% (greater)

Respiration

Method : RA-LL impedance
RR Measurement range : 0 ~ 150 rpm
Resolution : 1 rpm
Accuracy : ± 2 rpm
Apnea Alarm Threshold : 10 - 40s
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 : 2.5/5/10/20/40mm/mV; auto

Sweep Speed : 12.5, 25, 50mm/s

ECG HR Range : Adult: 15 ~ 300 bpm

Pediatric/Neonate : 15 ~ 350 bpm

Resolution & Accuracy : ±1bpm or 1% (greater)

Bandwidth : Diagnostic mode : 0.05 ~ 75 Hz

Monitor mode : 0.67 ~ 40 Hz

Surgery mode : 1.0 - 20 Hz

CMRR : Diagnostic > 90dB, Surgery/Monitor > 100dB

Protection : Withstand 4000VAC/50Hz voltage in isolation
against Defibrillation and Electrosurgical interference

ST Segment Detection : Measurement range : -2.0 ~ +2.0mV

ST Alarm range : -2.0 ~ +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

NIBP

Method : Automatic Oscillometric
Operation modes : Manual/Auto/Stat
Auto measurement time interval : Adjustable
1-5/10/15/30/60/90/120/240/480/960 Minutes
Measurement types : Systolic, Diastolic, Mean

Measurement Pressure range

Adult Systolic : 30 ~ 270 mmHg
Diastolic : 10 ~ 220 mmHg
Mean : 20 ~ 235 mmHg

Pediatric Systolic : 30 ~ 235 mmHg
Diastolic : 10 ~ 195 mmHg
Mean : 20 ~ 210 mmHg

Neonate Systolic : 30 ~ 135 mmHg
Diastolic : 10 ~ 100 mmHg
Mean : 20 ~ 110 mmHg

Over-Pressure Protection : Adult - 297 ± 3mmHg
Paed - 240 ± 3mmHg
Neonate - 147 ± 3mmHg

Resolution : 1mmHg
Accuracy : ± 3mmHg (Mean Error)
Alarm : Systolic, Diastolic, Mean
Typical Measuring Period : 25-40 sec

Temperature (Dual Channels, 1 Probe by Default)

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

IBP (Dual Channels) (Optional)

Labels : ART, PA, CVP, RAP, LAP, ICP
Measurement Range : -10 ~ 300 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 (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
Respiration Range : 2 ~ 150 breaths per minute (bpm)
Resp. Accuracy : ±1 breath
Resp. Resolution : 1 bpm
Calibration : No routine user calibration required

etCO₂ (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 dot matrix
Up to 2 channels printing
Print Speed : 25, 50 mm/s
Paper width : 48 mm

Specifications subject to change without prior notice.



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healthcare

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