

Cardio Técnica

Fabrica Argentina de Equipamiento Hospitalario



MA512



Designed and
manufactured in Argentina.
Warranty provision of spare parts

Multi-Parameter Patient monitor

Quality technology for the diagnosis

Multi-Parameter Patient monitor **MA5XX**

Models

MA512



| Color TFT Display | Parameter | Parameter (optional) | Waveform Display | Dimension (mm) | Weight (Including battery) |
|-------------------|---|--|------------------|------------------------------------|----------------------------|
| 12" | ECG Respiration Temperature SpO2 NIBP | CO2 Invasive Blood Pressure Cardiac Output | 4, 6, 8 Leads | High:260 Width:360 Depth:160 | 5,6 Kg |

MA507



| Color TFT Display | Parameter | Parameter (optional) | Waveform Display | Dimension (mm) | Weight (Including battery) |
|-------------------|-----------------------------------|----------------------|------------------|------------------------------------|----------------------------|
| 7" | ECG Respiration Temperature | SpO2 NIBP | 3, 4 Leads | High:190 Width:270 Depth:160 | 3,2 Kg |

MA507

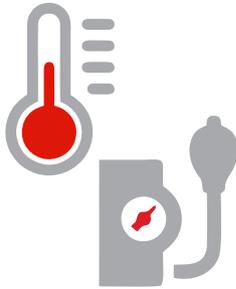
**SPO2 / CO2
Monitor**



| Color TFT Display | Parameter | Parameter (optional) | Waveform Display | Dimension (mm) | Weight (Including battery) |
|-------------------|-------------|----------------------|------------------|------------------------------------|----------------------------|
| 7" | SpO2 CO2 | No | 3, 4 Leads | High:190 Width:270 Depth:160 | 3,2 Kg |

Characteristics

General to all models



Input Circuit: Floating - Patient leakage current: less than 10 μ A
Protect from defibrillation.
ECG mode: 5-leads and 3-leads selectable
SpO2 Display: Digit, waveform, pulse rate.
Respiration Measuring Method: impedance.
NIBP method: Automatic oscillometric.
Manual/Auto/Stat Measurement of NIBP, Auto interval selectable
Two temperature with calculation of differential temperature.
BCI EtCO2 module, Method side stream .
CO2 display: Waveform, respiration rate, EtCO2, InCO2.
Dual IBP provided with world standard sensor and accesories.
Measurement of pressure SYS/DIA/MAP
Cardiac output module: Method Thermodilution
CO display: Cardiac Output Measurement Results, Temperature of Blood, Temperature of Injection



Elegant and compact appearance, high mechanical rigidity.
Built-in handle for easy transport.
Easy operation with user friendly menu structure design and rotary dial.
Two kinds visual screen: Waveform Mode or Numeric Mode.
High data storage capacity. Presentation in the form of trends and tables of values.
QRS complex: indicator visual and audible from the ECG or SpO2
Individual speed control for the circulatory system and respiratory system.



Night Mode
Digital Control of Brightness and Audio Volume.
Menu, messages and indications in three selectable languages.
Date and time in display.
Name of the Institution in display.



Full alarm feature include 3 alarm level, alarm sound, alarm light and on screen alarm message.
Alarms: physiological, messages and techniques.
Silence Alarm.



AC input 100-240VAC, 50/60Hz
Built-in Rechargeable Battery
Ambulance 12V DC application



Product approved by Ministry of Health and Environment
A.N.M.A.T. PM1230-7.

Characteristics

ECG

Input: 3 wires/5 wires ECG cable
Lead selection: I, II, III, aVR, aVL, aVF, V
ECG Gain: 0.25, 0.50, 1, 2mm/mV
Calibration: $\pm 1\text{mV}$
Measurement range Heart rate: 15 \approx 250bpm
Accuracy of Heart rate: $\pm 2\text{bpm}$
Sweep speed: 12.5, 25, 50mm/s
CMRR: $\geq 100\text{dB}$
Protection:
Against electrosurgical interference and defibrillation

Respiration

Measurement method: Thoracic impedance
Measurement range: 1 \approx 120bpm
Lead selection: RA-LA, RA-LL
Resolution: 1bpm
Display: Waveform, Respiration rate

Temperature

Number of channel: 2
Measurement range: 0°C \approx 60°C
Unit: °C
Resolution: 0.1°C
Display: T1, T2, ΔT

SpO2

Measurement range: 0 \approx 100%
Resolution of SpO2: $\pm 1\%$
Accuracy of SpO2: $\pm 2\%$ (70% \approx 100%)
Pulse rate range: 30 \approx 250bpm
Accuracy of Pulse rate: $\pm 2\text{bpm}$
Display: Waveform, Pulse rate
Sensor: Finger clip, Universal Y

NIBP

Measurement method: Automatic Oscillometric
Parameters: Systolic, diastolic, mean, pulse rate
Unit display: mmHg
Operating modes: Manual / Auto
Automatic measuring time: 1 \approx 90 minutes
Inflation time: $\leq 10\text{s}$ (typical adult cuff)
Cuff pressure range: 0 \approx 300mmHg
Monitoring range:
Adult 10 \approx 255mmHg / Neonate 10 \approx 135mmHg
Accuracy of NIBP: $\pm 3\text{mmHg}$

CO2

Measurement method: Infrared absorption
Unit display: mmHg
Measurement range: 0 \approx 99mmHg
Resolution of CO2: 1mmHg
Sweep speed: 6.25, 12.5, 25mm/s
Display:
Waveform, Respiration rate, EtCO2, InCO2

IBP

Channel IBP: 2
Unit display: mmHg
Transducer sensitivity: 5 $\mu\text{V/V/mmHg}$
Resolution of IBP: 1mmHg
Measurement range: -50 \approx 350mmHg
Display:
Waveform, Systolic, diastolic, mean, pulse rate

Available Configuration

MA512-1

ECG / Respiration / Temperature / SpO2 / NIBP

MA512-2

ECG / Respiration / Temperature / SpO2 / NIBP / 2-IBP

MA512-3

ECG / Respiration / Temperature / SpO2 / NIBP / CO2

MA512-4

ECG / Respiration / Temperature / SpO2 / NIBP / 2-IBP / CO2

Connectivity MA5XX

Possible connection to **Central Monitoring Multiparameter**.

Transmission of all parameters with graphical information, numerical information, alarm status, and messages via RS422 port.



- Easy access to connections
- Connectivity
- Easy Transport
- Intuitive Interface



cardiotecnica.com.ar
info@cardiotecnica.com.ar