



BPM-1000 MATRON Portable Patient Monitor

Experience the superiority of a high performance monitor,
The Matron gives you more than ever before.

Multi-parameters at your command in a simple Selectknob.

Quick and easy to operate parameters put you right into vital sign monitoring fast and accurately.

- SpO₂ with accuracy, stability, and compatibility outscoring others.
- NIBP with a patent pending "P-comfort" inflation and rejection mechanism.
- IBP provided with world standard sensor and accessories.
- 5-lead ECG / Arrhythmia Analysis.
- Respiration and dual Temperatures.

Portable and powerful : anywhere and anytime on your premises.

- Ergonomic hand grip and soft touch buttons.
- Long battery life ensuring safe and mobile monitoring
- "Glare-free" real-time data scrolling makes you have a stress-free data reading.
- Available rolling stand.

User-friendliness and convenience stand out in every function.

- Full color LCD with superior visibility.
- Numeric data memory (up to 72 hours) and instant nine trends memory function.
- Easy-to-Operate Hot keys.
(IBP, NIBP, Alarm, Display, Print).
- Networking Capacity.

BPM-1000 MATRON

● Technical Specification

■ Display

- Screen : 10.4" color TFT LCD
- Resolution : 640 x 480
- Trace : 7 Max.
- Sweep Speed : 12.5/25/50mm/s
- Indicator : AC power LED, Battery Indication LED
Alarm suspend LED, Alarm LED

● ECG

- Input : 5-lead (I, II, III, aVL, aVR, aVF, V)
- ECG waveform : 1Channel (the 2nd waveform cascade)
- Sweep speed : 12.5/25/50mm/s
- Gain (Sensitivity) : 2.5/5/10/20mm/mV
- Pulse range : 20 to 300bpm
- Pulse accuracy : ± 2 bpm
- Lead-off Detection : Yes
- Arrhythmia Analysis : Yes

● Respiration

- Measurement range : 0 ~ 150rpm
- Resolution : 1rpm
- Accuracy : ± 2 rpm
- Apnea delay : 10-40 sec (in 5 sec. Steps)
- Apnea alarm : Yes

● NIBP

- Technique : Oscilometric
- Operation mode : Manual
Automatic (2/5/10/15/30/60/120min)
- Inflation pressure range : 0-300mmHg
- Inflation pressure Max : Adult : 300 \pm 5mmHg
Neonate : 150 \pm 5mmHg
- Resolution : 1 mmHg
- Over-pressure protection : Yes
- Alarm : Systolic(60-270),
Diastolic(40-245) & Mean(45-255)

● SpO₂

- Measurement range : 0-100%
- Measurement range accuracy : $\pm 2\%$
- Pulse rate range : 20-300bpm
- Pulse rate accuracy : ± 2 bpm
- SpO₂ accuracy : $\pm 2\%$ (70-100%), $\pm 3\%$ (50-69%),
0-49% Unspecified
- Resolution : 1%

● IBP (2 IBP / optional)

- Measurement range : -40 to 360mmHg
- Channel : 2 channel
- Resolution : 1mmHg
- Accuracy : ± 2 mmHg
- Auto zero balancing range : ± 200 mmHg
- Alarm Range : -40 to 360mmHg

● Temperature (2 Temperature)

- Measurement range : 20 ~ 45°C (68 ~ 113°F)
- Accuracy : $\pm 0.1^\circ\text{C}$ ($\pm 0.2^\circ\text{F}$)
- Alarm Range : 30 ~ 45°C (86 ~ 113°F)

● EtCO₂ (Optional)

- Measurement mode : Microstream
- Range : 0 ~ 99 mmHg
- Accuracy : 0 ~ 38 mmHg ± 2 mmHg
39 ~ 99 mmHg $\pm 5\% + 0.08\%$
for every 1mmHg above 38mmHg



- Respiration rate : 0~150 breaths per minute
- Respiration accuracy : ± 1 breath per minute from 0 ~ 70bpm
 ± 2 bpm from 71~120bpm
 $\pm 3\%$ from 121 ~ 150bpm
- CO₂ waveform
- Recognition : 5mmHg ± 2 mmHg bandwidth
- Start-up time : 30seconds typical
- Sampling rate : 50ml / minute ± 7.5 ml/min
- Auto zero : < 15seconds at 5, 10, 15 and 60minute then
every 60minutes thereafter.

■ Recorder : (Optional)

- Method : Thermal
- Waveform channel : 3 (Max)
- Paper width : 48mm (2 inch)
- Paper speed : 12.5/25/50mm/s
- Type : Built-in

■ Trend : 72hours

■ Battery : Rechargeable Li-ion Battery (12V 4,400mAh)

■ Power requirements :

- Voltage input : 100-240VAC, 50-60Hz
- Power consumption : 60W(max)

■ Environmental Conditions

- Operating Temperature : 10 ~ 40°C (50 ~ 104°F)
- Storage Temperature : -10 ~ 50°C (14 ~ 122°F)
- Operating Humidity : 15 ~ 90% max, non-condensing
- Storage Humidity : 10 ~ 95% max, non-condensing



All specifications are subject to change without notice

Sold and Serviced by **DTS** Diagnostic & Technical Services Pty Ltd

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