

PATIENT MONITOR

BM-K15

For **Comprehensive** Patient Monitoring in ICU



Technical Specifications

ECG

- Input dynamic range: $\pm(0.5\text{mVp}\sim 5\text{mVp})$
- Differential input impedance: $\geq 10\text{M}\Omega$
- Bandwidth: 0.05~150Hz (Diagnostic)
- 0.5~40Hz (Monitoring)
- 1~20Hz (Operation)
- CMRR: $\geq 90\text{dB}$ (Diagnostic)
- $\geq 105\text{dB}$ (Monitoring & Operation)
- Sensitivity selection: $\times 1/4$, $\times 1/2$, $\times 1$, $\times 2$, $\times 4$ and Auto
- Sweeping speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
- HR measuring range: 15~350bpm
- HR accuracy: $\pm 1\%$ or $\pm 2\text{bpm}$, whichever is greater
- Pacemaker pulse detection and rejection function

RESP

- Measuring range: 0~120rpm
- Measuring accuracy: $\pm 5\%$ or $\pm 2\text{rpm}$, whichever is greater

TEMP

- Measuring range: 21.0~50.0°C
- Measuring accuracy: $\pm 0.2^\circ\text{C}$ from 25~45°C

NIBP

- Technique: Oscillometric method
- Typical measurement time: <30 seconds (adult cuff)
- NIBP measuring range SYS: 40~275mmHg (Adult), 40~200mmHg (Pediatric), 40~135mmHg (Neonate)
- NIBP measuring range DIA: 10~210mmHg (Adult), 10~150mmHg (Pediatric), 10~95mmHg (Neonate)
- NIBP measuring range MAP: 20~230mmHg (Adult), 20~165mmHg (Pediatric), 20~110mmHg (Neonate)
- NIBP measuring accuracy (mean difference): $\pm 5\text{mmHg}$
- NIBP measuring accuracy (standard deviation): 8mmHg
- NIBP measurement mode: Manual, Auto, STAT, Multi-cycle mode
- Auto measuring intervals: 1-480min

SpO₂

- Technique: Dual-wavelength optical method
- Measuring range: 0%~100%
- Measuring accuracy: Arms is not greater than 2% for
- SpO₂ range 70~100%.
- PR measuring range: 30~250bpm
- PR measuring accuracy: $\pm 2\text{bpm}$ or $\pm 2\%$, whichever is greater

- Low perfusion performance: As low as 0.3%

CO₂

- Technique: Infrared optical method
- Sampling mode: Sidestream or Mainstream
- Measuring range: 0~150mmHg
- Measuring accuracy: 0~40mmHg $\pm 2\text{mmHg}$, 41~70mmHg $\pm 5\%$ of reading, 71~100mmHg $\pm 8\%$ of reading, 101~150mmHg $\pm 10\%$ of reading
- Flow rate: 50ml/min $\pm 10\text{ml/min}$ (Sidestream)

Cerebral State Monitoring (CSM)

- EEG sensitivity: $\pm 400\mu\text{V}$
- Noise level: $< 2\mu\text{Vp-p}$, $< 0.4\mu\text{V rms}$ (1~250Hz)
- CMRR: $> 140\text{dB}$
- Input impedance: $> 50\text{Mohm}$
- CSI and update: 0-100. filter: 6-42Hz, 1 sec. update
- EMG%: 0-100 (logarithmic) filter: 75-85 Hz, 1 sec. update.
- BS%: 0-100. filter: 2-42 Hz, 1 sec. update

IBP

- Technique: Strain gauge transducer
- Input sensitivity: $5\mu\text{V/V/mmHg}$
- Measuring range: -50~300mmHg
- Measuring accuracy: $\pm 2\%$ or $\pm 4\text{mmHg}$, whichever is greater
- Measuring positions: ART, RAP, PA, LAP, CVP, ICP, AUXP1, AUXP2
- Calibration: zero calibrating

Cardiac Output (C.O.)

- Blood temperature measuring: range: 23-43°C, accuracy: $\pm 0.5^\circ\text{C}$
- Injecta temperature measuring: range: 0-20°C, accuracy: $\pm 0.5^\circ\text{C}$
- Measuring range: 0.2~20 L/min
- Measuring accuracy : $\pm 0.2\text{L/min}$ or $\pm 10\%$, whichever is greater

Other

- Power supply: AC 100V-240V, 50/60Hz, 60VA
- Built-in lithium battery: 11.1V/4400mAh
- Display: 12.1 inch TFT display
- Alarming method: 3 levels audible-visible alarm
- Networking: Ethernet

Standard configuration

ECG, Respiration, SpO₂, PR, NIBP, Temperature

Options

Touch Screen, 2-IBP, EtCO₂, Nellcor SpO₂, SunTech NIBP, 12-lead ECG, Cardiac Output, Cerebral State Monitoring, Central Monitor Station, Multi-Gas Monitoring



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1-10-51/2, Road 6B, Dwarakapuram,
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