

VS-800

Vital Signs Monitor

Technical Specifications

Safety

Meet the requirements of IEC60601 series
CE marking according to MDD93/42/EEC

Dimension and Weight

Dimension: 170mm (W) x 240mm (H) x 170mm (D)
Weight: < 3.5kg (including a battery)

Operation Environment

AC Power Requirements: 100-240 VAC ($\pm 10\%$), 50/60 Hz (± 3 Hz), 70 VA
Temperature: 0 - 40°C (SmarTemp™: 10-40°C)
Humidity: 15% - 95%, non-condensing

Patient Range

Adult, pediatric and neonatal

Performance Specifications

Display:
7 segment LEDs for systolic, diastolic, mean pressures
SpO₂, Temp, and pulse rate
3.4" FSTN LCD Resolution: 320x160 Pitch 0.24 x 0.24mm
Trace: 1 plethysmogram waveform
Sweep Speed: 25mm/s
Indicator: Alarm indicator
Power indicator
Battery indicator
Patient type indicator
Pulse strength indicator
NIBP status indicator
Silence indicator

Interface:
Network port
Nurse call interface

Trend:
Flexible database lists trend for review of up to 1,200 measurements on up to 100 patients

Alarm:
3-level audible and visual alarm

Networking:
Connected to Mindray central monitoring system or data exporting system

Recorder:
Built-in, thermal array
Record width: 48mm (record paper 50mm)
Print speed: 25mm/s

Lead Acid Battery:
Rechargeable
About 8 hours (Charging time)
About 4.5 hours (Working time)

Li-ion Battery:
Rechargeable
About 8 hours (Charging time)
About 10.5 hours (Working time)

NIBP

Method: Automatic oscillometric
Operation modes: Manual/Automatic/Continual
Auto measure time: Adjustable
Measurement unit: mmHg/kPa selectable
Measurement types: Systolic, Diastolic, Mean, Pulse Rate
Adult: 10-270mmHg
Pediatric: 10-200mmHg
Neonate: 10-135mmHg

Over-pressure protection: YES
Resolution: 1mmHg
Alarm: Systolic, Diastolic, Mean, Pulse Rate
Pulse Rate Range: 40 - 240 bpm
Pulse Rate Resolution: 1bpm
Pulse Rate Accuracy: ± 2 bpm

Mindray SpO₂

Measurement range: 0 - 100%
Resolution: 1%
Accuracy: Adult/Pediatric: $\pm 2\%$ (70-100%);
Neonatal: $\pm 3\%$ (70-100%);
0-69% unspecified
Alarm range: 0-100%
Pulse rate: Range: 20-254bpm
Resolution: 1bpm
Accuracy: ± 3 bpm
Alarm range: 20-254bpm

Masimo SET SpO₂

Measurement range: 1-100%
SpO₂ accuracy: Adult/Pediatric: 70%-100% $\pm 2\%$; 0-69% unspecified
Neonate: 70%-100% $\pm 3\%$; 0-69% unspecified
During motion conditions: 70%-100% $\pm 3\%$; 0-69% unspecified
Low perfusion performance:
Pulse amplitude: > 0.02%
Light transmissivity: > 5%
SpO₂ accuracy: $\pm 2\%$
PR accuracy: ± 3 bpm
Range: 25 - 240 bpm
Accuracy: In static condition: ± 3 bpm
In motion condition: ± 5 bpm

Nellcor OxiMax SpO₂

Measurement range: 0-100%
Compatible sensors: Nellcor sensor type: OxiMax series MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I, MAX-FAST, MAX-R, OxiCliq A, OxiCliq N, OxiCliq P, OxiCliq I, D-YS, D-YSE, D-YSPD, DS-100A, OXI-A/N and OXI-P/I
SpO₂ accuracy: 70%-100% $\pm 2\%$; 0-69% unspecified (sensors: MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I and MAX-FAST)
70%-100% $\pm 2.5\%$; 0-69% unspecified (sensors: OxiCliq A, OxiCliq N, OxiCliq P and OxiCliq I)
70%-100% $\pm 3\%$; 0-69% unspecified (sensors: D-YS, DS-100A, OXI-A/N and OXI-P/I)
70%-100% $\pm 3.5\%$; 0-69% unspecified (sensors: MAX-R, D-YSE and D-YSPD)
Pulse Rate: Range and accuracy 20-250 bpm ± 3 bpm
251-300 bpm unspecified

SmarTemp™ Thermometer

Measurement range: 25 - 44°C (77 - 111.2 °F)
Resolution: In MONITOR mode: 0.1°C (0.2°F)
Accuracy: In MONITOR mode: 25 - 32°C (77 - 89.6 °F): $\pm 0.2^\circ\text{C}$ ($\pm 0.3^\circ\text{F}$) including 32°C (89.6°F)
In MONITOR mode: 32 ~ 44°C (89.6 - 111.2 °F): $\pm 0.1^\circ\text{C}$ ($\pm 0.2^\circ\text{F}$) excluding 32°C (89.6°F)
Typical Measurement time: < 12s

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Vital Signs Monitor



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Taking high cost out of quality healthcare





MINDRAY **VS-800**
Vital Signs Monitor

- Suitable for adult, pediatric and neonatal patients
- Masimo SET™ / Nellcor OxiMax™ / Mindray SpO₂
- SmarTemp™ thermometer
- Adjustable audible and visual alarms
- Central Station networking
- Removable and rechargeable battery, up to 10-hour working time
- Integrated handle and full mounting solutions

Parameters: NIBP, SpO₂, Temp



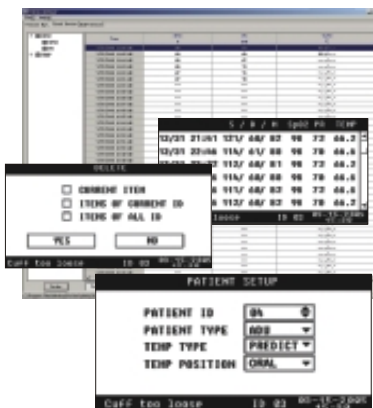
The Stable Design

Prevents VS-800 from slipping and tilting back when pressing the buttons



SmarTemp™ Thermometer

2 types of probes: oral/axillary probe (blue) and rectal probe (red). Probe can auto-warm up to an initial temperature to be sure of an accurate measurement. Neonatal patients are suitable for axillary measurement.



Powerful Data Storage and Management Functions

Allow you to easily keep and view patient data. Total storage capacity: 100 patient IDs; 1200 sets of data for each parameter. All data can be transferred to a PC through Windows-based software for review and A4 paper printing.

