# **VS-800**

## **Vital Signs Monitor**

#### **Technical Specifications**

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

Type of Protection: Class I; internally/externally powered equipment Degree of Protection: SpO\_/NIBP/TEMP: CF

Protection Against Ingress of Liquid's:Not Suitable (Ordinary)-IPX0

Dimension and Weight

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

AC Power Requirements: 100-240VAC 50/60Hz

0 - 40°C (SmarTemp TM: 10-40°C) Temperature:

Humidity: 15% - 95% (noncondensing)

Storage Environmen

-20°C ∼ +60°C Temperature:

 $10\% \sim 95\% (non-condensing)$ Humidity:

Neonate, pediatric and adult patients Patient Range:

Performance Specifications

7 segment LEDs for systolic, diastolic, Display:

mean pressures, SpO2, Temp, and pulse rate 3.4" FSTN LCD

Resolution:

Pitch : 0.24×0.24mm Trace: 1 plethysmogram waveform

Alarm indicator Indicator Patient type indicator

Temperature site and mode indicator

Silence indicator Pulse strength indicator NIBP Unit indicator Temperature Unit indicator NIBP status indicator

AC Power indicator Battery indicator Working status indicator

Interface Network interface: Used to connect the monitor to the CMS or PC

Nurse call interface. Used to connect the monitor to the hospital's

nurse call system. RS-232 interface: Used to connect the bar code scanner.

Battery Rechargeable Li-ion Battery: About 8 hours for charging: 4.5 hours for

continuous working

Rechargeable Lead-Acid Battery: About 8 hours for charging; 10.5 hours

for continuous working
Flexible database lists trend for review of up to 1,200 Trend memory

User-adjustable High and Low limits 3-level audible and visual alarm Connected to Mindray central monitoring system or data exporting

Networking

Recorder

Paper width: 50mm Print speed: 25mm/s, 50mm/s

Method: Automatic oscillometric Operation modes: Manual/Auto/STAT . Auto measure time : Adjustable Measurement unit: mmHg / kPa selectable

Systolic, Diastolic, Mean, Pulse Rate Measurement type:

Range of systolic pressure

Range of diastolic:

Adult Mode 40-270mmHa Pediatric Mode 40-200mmHg Neonatal Mode 40-135mmHg pressureAdult Mode 10-210mmHa Pediatric Mode 10-150mmHa

Range of mean pressure : Adult Mode 20-230mmHc Pediatric Mode 20-165mmHd Neonatal Mode

Accuracy of blood pressure measurement

The mean error shall be less than ±5mmHg

The standard deviation shall be less than 8mmHg Over-pressure protection: Double safety protection

Resolution 1mmHa

Systolic, Diastolic, Mean Pulse rate Pulse Rate

40 - 240 bpm Range: Pulse Rate Pulse Rate Accuracy: ±3bpm

MINDRAY SPO,

Measurement range: 1~100% Resolution:

±2%(70~100%,Adult/Pediatric, non-motion) Accuracy:

±3%(70~100%,Neonate, non-motion)

0~69% unspecified

Alarm range: 0~100% Range:

1bpm ±3bpm(non-motion); Resolution Accuracy:

20~254bpm

Alarm range: 20~254bpm

MASIMO SPO.

Measurement range: 1~100% Resolution:

 $\pm 2\% (70 \sim 100\%, Adult/Pediatric, non-motion)$ Accuracy: ±3%(70~100%. Neonate, non-motion)

±3%(70~100%, Adult/Pediatric/Neonate, motion)

0~69% unspecified

Alarm range: 0~100% Pulse rate Range:

25~240bpm Resolution

Accuracy: ±3bpm(non-motion);±5bpm(motion)

25~240bpm Alarm range:

NELL COR SPO.

Measurement range:  $0\sim100\%$ 

Resolution

 $\pm 2\% (70{\sim}100\%, MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I and MAX-FAST$ 

±2.5%(70~100%,OxiCliq A, OxiCliq N, OxiCliq P, OxiCliq I sensors)

±3%(70~100%, D-YS, DS-100A, OXI-A/N and OXI-P/I sensors)

±3.5%(70~100%, MAX-R, D-YSE and D-YSPD sensors)

0~69% unspecified

Alarm range: 0~100% Pulse rate: Range:

Measurement time: In PREDICT mode:

20~300bpm Resolution

±3bpm(20-250bpm);251-300bpm unspecified Accuracy:

typically 10s to 12s from the moment when

Alarm range: 20~250bpm

Temperature

25 - 44°C(77 - 111.2 °C) 35 to 43 °C (95 to 109.4 °F) In MONITOR mode In PREDICT mode: Resolution: In MONITOR mode: 0.1°C (0.2 °C)

25 - 32°C (77 - 89.6 °C): ±0.2°C (±0.3 °C) In MONITOR mode:

including 32 °C (89.6°C) 32~44°C (89.6 - 111.2 °C): ±0.1°C (±0.2 °C) excluding 32 °C (89.6 °F)

# **Vital Signs Monitor**

**VS-800** 



★ 3-Year Manufacturer Warranty on Main Unit!

**MINDRAY** 

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Taking high cost out of quality healthcare





Parameters: NIBP, SpO<sub>2</sub>, Temp



#### The Barc ode Scanner

Let you admit patient quickly and reduce the chance for transcription errors by simply scanning the barcode to get patient information at the point of care.



#### **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.



## **VS-800**

# Vital Signs Monitor

- Suitable for adult, pediatric and neonatal patients
- Clinical proven SpO<sub>2</sub> technology
- SmarTemp<sup>™</sup> thermometer
- Adjustable audible and visual alarms
- Central Station networking
- Optional barcode scanner for easily admitting the patients
- Removable and rechargeable battery, up to 10-hour working time
- Integrated handle and full mounting solutions









