



## Display

Type:	3.4" monochrome FSTN LCD
Resolution:	320 x 160 pixels
Pitch:	0.24mm x 0.24mm
Waveforms:	Plethysmograph
Parameters:	7-segment LEDs for non-invasive blood pressure (systolic, diastolic, mean), SpO <sub>2</sub> , pulse rate, temperature

## Non-Invasive Blood Pressure

Measurement Method:	Oscillometric
Measurement Modes:	Manual, interval, stat
Connector Type:	Rectus
Units of Measure:	mmHg, kPa (user-selectable)
Resolution:	1mmHg
Systolic Range:	Adult: 40-270mmHg Pediatric: 40-200mmHg Neonate: 40-135mmHg
Diastolic Range:	Adult: 10-210mmHg Pediatric: 10-150mmHg Neonate: 10-100mmHg
Mean Range:	Adult: 20-230mmHg Pediatric: 20-165mmHg Neonate: 20-110mmHg
Accuracy:	Mean error is <math>\pm 5\text{mmHg}</math> Standard deviation is <math>< 8\text{mmHg}</math>
Cuff Deflation	
Technique:	Step bleed
Cuff Inflation:	Volume of 500cc to 300mmHg in <math>< 20\text{sec}</math>
Over Pressure	
Protection:	Double safety protection (hardware and software)
Pulse Rate Range:	40-240bpm
Pulse Rate Accuracy:	$\pm 3\text{bpm}$

## Pulse Oximetry

### With Masimo SET® SpO<sub>2</sub>

Measurement Range:	1-100%
Resolution:	1%
Accuracy:	$\pm 2\%$ (70-100%, Adult/Pediatric, no motion) $\pm 3\%$ (70-100%, Neonate, no motion) 0-69% unspecified

### With Mindray™ SpO<sub>2</sub>

Measurement Range:	0-100%
Resolution:	1%
Accuracy:	$\pm 2\%$ (70-100%, Adult/Pediatric, no motion) $\pm 3\%$ (70-100%, Neonate, no motion) 0-69% unspecified

## Pulse Rate

### With Masimo SET® SpO<sub>2</sub>

Measurement Range:	25-240bpm
Resolution:	1bpm
Accuracy:	$\pm 3\text{bpm}$ (no motion), $\pm 5\text{bpm}$ (motion)

### With Mindray SpO<sub>2</sub>

Measurement Range:	20-254bpm
Resolution:	1bpm
Accuracy:	$\pm 3\text{bpm}$ (no motion)

## Temperature

Modes:	Monitor, predictive
Measurement Range:	Monitor mode: 25°C to 44°C (77°F to 111.2°F) Predictive mode: 35°C to 43°C (95°F to 109.4°F)
Resolution:	0.1°C
Accuracy:	Monitor mode: 25°C to 32°C (77°F to 89.6°F) $\pm 0.2^\circ\text{C}$ ( $\pm 0.3^\circ\text{F}$ ) including 32°C (89.6°F) 32°C to 44°C (89.6°F to 111.2°F) $\pm 0.1^\circ\text{C}$ ( $\pm 0.2^\circ\text{F}$ ) excluding 32°C (89.6°F)
Measurement Time:	Monitor: <math>< 60\text{sec}</math> Predictive: <math>< 20\text{sec}</math>



### Trends

List Trends: 1,200 data sets stored. Data set includes measurement date/time, NIBP, SpO<sub>2</sub>, pulse rate, and temperature. Five data sets viewable in list trend window at a time.

### Recorder

Type: Thermal array  
 Output: Plethysmograph, list trend data  
 Speed: 25mm/sec, 50mm/sec

### Battery

Type: Rechargeable lithium ion or sealed lead acid  
 Run Time: Lithium ion: 10.3 hours using a new, fully charged battery for continuous SpO<sub>2</sub> and auto NIBP measurements at 15-minute intervals at 25°C  
 Sealed lead acid: 4.3 hours using a new, fully charged battery for continuous SpO<sub>2</sub> and auto NIBP measurements at 15-minute intervals at 25°C  
 Recharge Time: 8 hours maximum (during normal operation or standby mode)

### Interfacing

Connectors: 1 nurse call port for connecting to hospital nurse call system  
 1 RS-232 port for connecting bar code scanner  
 1 RJ45 port for patient data export or software upgrade via a PC

### Physical Dimensions

Monitor Size: 24cm (H) x 17cm (W) x 17cm (D)  
 9.4" (H) x 6.7" (W) x 6.7" (D)  
 Monitor Weight: 3.5kg (7.7lbs) including battery

### Environmental

Operating Temperature: 0°C to 40°C (SmarTemp™: 10°C to 40°C)  
 Storage Temperature: -20°C to 60°C  
 Operating Humidity: 15% to 95%, non-condensing  
 Storage Humidity: 10% to 95%, non-condensing

### Power Requirements

AC Voltage: 100–240 VAC, 50/60 Hz  
 Power: 70VA

### Safety

Type of Protection: Class I; internally/externally powered equipment  
 Degree of Protection: CF  
 Protection Against Ingress of Fluids: IPX0