



Vitalmax 800

A. Mechanical Description

| | |
|--------|--|
| Size | 4.0" H x 9.75" W x 10.75"D (10.16 cm x 24.77 cm x 27.31 cm) |
| Weight | 10 lb. 2.8 oz (4.57 kg) |
| Color | Beige and Aqua |

B. Power Requirements

| | |
|------------------------|---|
| Operation | AC/DC |
| Internal battery | 6V 11.0Ahr sealed lead-acid |
| Battery operating time | 10 - 15 hours full charge |
| Battery charge time | 16-20 hours |
| AC Adapter | Domestic: 110 - 120V / 50/60Hz International: 220 - 240 V / 50-60Hz |
| Fuses | 8-12 VDC / 2.4- 3.0A Output, UL, CSA, GS Two 3.0 A, 250 V, fast blow |

C. Performance Specifications

1. NON-INVASIVE BLOOD PRESSURE (NIBP)

| | |
|---------------------------|---|
| Method | Automatic oscillometric |
| Parameters measured | Systolic, diastolic, mean arterial pressure, pulse |
| Scale | mmHg or kPa |
| Operating modes | Manual, Automatic, Stat |
| Repeat cycles | 16-50 seconds 16-50 seconds |
| Rapid cycle update | 1-4 minutes (STAT mode) |
| Measurement range | Systolic: Adult/pediatric 30-250 mmHg (4.0-33.3 kPa) Neonate 20-160 mmHg (2.7-21.3 kPa) Diastolic: Adult/pediatric 1.3-240 mmHg (1.3-32.0 kPa) Neonate 10-140 mmHg (1.3-18.7 kPa) |
| Measurement time | Typical 50 seconds Maximum 120 seconds Typical Stat 30 seconds |
| Cuff inflation rate | Not greater than 40-50 mmHg/sec (5.33-6.66 kPa/sec) |
| Cuff inflation pressure | 30 mmHg above last systolic (4.0 kPa) |
| Cuff pressure range | Adult/pediatric 0-250 mmHg (0-33.3 kPa) Neonate 0-140 mmHg (0-18.7 kPa) |
| Initial cuff inflation | Adult/pediatric 170 ± 10 mmHg (22.7 ± 1.3 kPa) Neonate 120 ± 10 mmHg (16.0 ± 1.3 kPa) |
| Auto deflate pressure | Adult/pediatric 280 mmHg; ± 5 mmHg (36.7-38.0 kPa) Neonate 235 mmHg; ± 5 mmHg (30.7-32.0 kPa) |
| NIBP display accuracy | ± 3 mmHg (0.4 kPa) |
| NIBP alarm limit | Systolic: Upper 0-255 mmHg (0-34.0 kPa) Lower 0-254 mmHg (0-33.9 kPa) Diastolic: Upper 0-255 mmHg (0-34.0 kPa) Lower 0-254 mmHg (0-33.9 kPa) Mean: Upper 0-255 mmHg (0-34.0 kPa) Lower 0-254 mmHg (0-33.9 kPa) |
| Pulse rate determinations | 30-254 bpm |
| Pulse rate averaging | 4 beat average |
| Pulse rate accuracy | ±3 bpm @ 40-120 bpm ±10 bpm @ 121-200 bpm |

Pulse rate alarm limits

Upper 0-250 bpm

Lower 0-254 bpm

Cuffs

Reusable and disposable cuffs

Neonate, infant, pediatric, standard adult, large adult, thigh, with 6 foot air hose

2. PULSE OXIMETRY (SpO2)

Saturation range

0-100%, adult/pediatric/neonate

Saturation averaging

8 beat average

Saturation accuracy

± 2% (70-100%), ±3% (50-69%), (0-49% unspecified)

Saturation alarm limits

Upper: 0-100%

Lower: 0-99%

Pulse rate range

30 - 254

Pulse rate averaging

8 second average

Pulse rate accuracy

±2 % @ 30 - 100 bpm

Pulse alarm limits

Upper: 0-250 bpm

Lower: 0-249 bpm

Pulse tone

Pitch adjusts to SpO2 value

Volume adjustable

Pulse rate display

Waveform, digital, pulse amplitude

Sensor types

Finger, Universal "Y", ear lobe clip

Disposable and reusable wrap probes

3. TEMPERATURE

Temp scale

°F or °C

Temp range

82.4-109.8°F (28.0-43.2°C)

Temp accuracy

± 0.2°F (± 0.1°C)

Temp alarm limits

Upper 83.0-110.0°F (28.3-43.3°C)

Lower 83.0-109.9°F (28.3-43.2°C)

Temp probes

Skin or rectal/esophageal

4. RESPIRATION

Method

Nasal cannula

Averaging

4 respirations per minute (rpm)

Accuracy

± 2 rpm

D. Display

Parameters/Alarms/Limits

High Intensity Red LED 0.56"

Time and Date

High Intensity Red LED 0.3"

Pulse Strength

10 Segment Logarithmic Red LED Bargraph

Signal Indicators

Green and Yellow signal LED 2 x 5mm

E. Printer

Type

27-column thermal printer

Output

ASCII parallel

Printing Width

46mm

Printing Speed

Approximately 0.8 lines per seconds

Paper Requirement

Thermal printer paper 7mm (L) x 58mm (W)

25mm roll diameter

F. Environmental Specifications

Temperature

Operating: 60°F - 86°F (15°C - 30°C)
 Storage 40°F - 110°F (4.4 C - 43.3°C)

Relative humidity

Operating: 30-80% (non-condensing)
 Storage 10-90% (non-condensing)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

| FUNCTION | VITALMAX 800 SERIES | | | |
|----------|---------------------|------|----|------|
| | II | II-S | IV | IV-S |
| NIBP | | | | |
| SpO2 | | | | |
| TEMP | | | | |
| RESP | | | | |
| PRINTER | ■ | ■ | ■ | ■ |

■ Optional