



MiniPack 911 STC

## A. Mechanical Description

MiniPack 911, 911-T, 911-S, 911-ST

Size 3.25" H x 6.25" W x 10.25" D  
(18.26 cm x 15.88 cm x 26.04 cm)  
Weight 7 lb. 5.4 oz (3.33 kg)

MiniPack 911 -STC

Size 3.5" H x 7.44" W x 10.75" D  
(8.89 cm x 18.90 cm x 27.30 cm)  
Weight 8 lb 12 oz (4.0 kg)  
Color Beige and Aqua

## B. Power Requirements

Operation AC/DC  
Internal battery 6V 7.0Ahr sealed lead-acid  
Battery operating time 6.8 hours - full charge  
Battery charge time 16-20 hours  
AC Adapter Domestic: 110 - 120V / 50/60Hz  
International: 220 - 240 V / 50-60Hz  
8-12 VDC / 2.4- 3.0A Output, UL, CSA, GS  
Fuses 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  
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 (1.3-30.0 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/pedi 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<br>±10 bpm @ 121-200 bpm  |
| Pulse rate alarm limits   | Upper 0-250 bpm<br>Lower 0-254 bpm  |
| Cuffs                     | Reusable and disposable cuffs<br>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%<br>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<br>Lower: 0-249 bpm  |
| Pulse tone              | Pitch adjusts to SpO2 value<br>Volume adjustable                            |
| Pulse rate display      | Waveform, digital, pulse amplitude  |
| Sensor types            | Finger, Universal "Y", ear lobe clip<br>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)<br>Lower 83.0-109.9°F (28.3-43.2°C) |
| Temp probes       | Skin or rectal/esophageal  |

## 4. END-TIDAL CO2, inCO2(min) and RESPIRATION

|                           |  |       |          |       |          |       |                      |       |           |       |                        |       |           |
|---------------------------|--|-------|----------|-------|----------|-------|----------------------|-------|-----------|-------|------------------------|-------|-----------|
| Type                      | Side stream, non-dispersive infrared   |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Method                    | CO2 sample line with nasal cannula or endotracheal tube connector  |       |          |       |          |       |                      |       |           |       |                        |       |           |
| CO2 averaging             | 4 breaths or breath-to-breath  |       |          |       |          |       |                      |       |           |       |                        |       |           |
| CO2 range                 | 0-99 mmHg adult/pediatric (0-13.2 kPa)   |       |          |       |          |       |                      |       |           |       |                        |       |           |
| CO2 accuracy              | ± 2 mmHg (0-40 mmHg)[± 0.27 kPa (0-5.33 kPa)]<br>± 5% of reading [(40-99 mmHg)(5.33-13.2 kPa)]   |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Rise time                 | ≤ 300 ms 10% to 90% Co2  |       |          |       |          |       |                      |       |           |       |                        |       |           |
| CO2 calibration           | Manual with room air, and 10% CO2 every six months   |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Sample aspiration rate    | 75 ml/min ±10 ml   |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Sample line purging       | Automatic  |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Water trap                | Disposable, Volume 4 cc  |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Respiration range         | 4-99 rpm (respirations per minute) adult/pediatric   |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Respiration rate accuracy | ± 2 rpm  |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Analog output             | Optional   |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Alarm limits              | Respiration <table> <tr> <td>Upper</td> <td>4-99 rpm</td> </tr> <tr> <td>Lower</td> <td>4-98 rpm</td> </tr> </table><br>ETCO2 <table> <tr> <td>Upper</td> <td>0-99 mmHg (13.2 kPa)</td> </tr> <tr> <td>Lower</td> <td>0-98 mmHg</td> </tr> </table><br>InCO2 <table> <tr> <td>Upper</td> <td>0-99 mmHg (0-13.2 kPa)</td> </tr> <tr> <td>Lower</td> <td>0-98 mmHg</td> </tr> </table> | Upper | 4-99 rpm | Lower | 4-98 rpm | Upper | 0-99 mmHg (13.2 kPa) | Lower | 0-98 mmHg | Upper | 0-99 mmHg (0-13.2 kPa) | Lower | 0-98 mmHg |
| Upper                     | 4-99 rpm   |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Lower                     | 4-98 rpm   |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Upper                     | 0-99 mmHg (13.2 kPa)   |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Lower                     | 0-98 mmHg  |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Upper                     | 0-99 mmHg (0-13.2 kPa)   |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Lower                     | 0-98 mmHg  |       |          |       |          |       |                      |       |           |       |                        |       |           |
| Alarm volume              | Fixed  |       |          |       |          |       |                      |       |           |       |                        |       |           |

## 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)<br>25mm roll diameter |

## F. Environmental Specifications

|                   |   |
|-------------------|---|
| Temperature       | Operating: 60°F - 86°F (15°C - 30°C)<br>Storage 40°F - 110°F (4.4 C - 43.3°C) |
| Relative humidity | Operating: 30-80% (non-condensing)<br>Storage 10-90% (non-condensing)         |

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

| FUNCTION | MINIPACK 911 SERIES |       |       |        |         |
|----------|---------------------|-------|-------|--------|---------|
|          | 911                 | 911-T | 911-S | 911-ST | 911-STC |
| NIBP     |                     |       |       |        |         |
| SpO2     |                     |       |       |        |         |
| TEMP     |                     |       |       |        |         |
| CO2      |                     |       |       |        |         |
| RESP     |                     |       |       |        |         |
| PRINTER  | ■                   | ■     | ■     | ■      | ■       |

■ Optional