Taking vital signs to the next level

Philips SureSigns VS4

Expand vital signs monitoring with the Philips SureSigns VS4. Respond to changing patient conditions by having the versatility to choose between frequent vitals mode and spot check mode within the same device. Simplify clinician workflow with an intuitive touch-screen interface and tools like QuickCapture and QuickCheck. QuickAlerts – SureSigns single parameter Early Warning Scoring (EWS) feature – supports caregivers in activating your hospital’s Rapid Response Team (RRT). The VS4 is simple to use and works easily with your existing network. It provides you with peace of mind and flexibility – all in a package that’s as easy to love as it is to use.

Key features

- Touch screen – color LED backlit screen
- Internal WiFi – 802.11 a/b/g option
- Temperature Choices: Predictive, tympanic, or temporal
- QuickCheck: • Caregiver authentication at the bedside • Patient record validation at the bedside • Patient record review before export to EHR
- QuickCapture: Customize up to 20 observations and assessments entries
- QuickAlerts: Supports Hospital Rapid Response Team
- Time-sync with hospital or network clock
- Battery management, including a clearly visible icon to show unit is plugged in and charging
- Confirmation of exported records easily seen in green
- One-touch NBP on/off button
- Stores up to 800 patient records
- Uses same supplies as all Philips monitors
- Choice of Philips FAST-based or Masimo SET® SpO₂
- Microstream® etCO₂ option with Integrated Pulmonary Index (IPI)
- QuickNBP: For fast NBP measurements
- Exergen TemporalScanner™ Thermometer: • Accurate temperature with a gentle forehead scan • Cost savings of 90% over other thermometry methods

2D barcode scanner accessory: Programmable to support consistent and accurate patient ID entry

PHILIPS
Make the most of patient monitoring

Philips SpO₂ technology includes a FAST-based SpO₂ algorithm and is compatible with a wide variety of adult, pediatric, and neonatal sensors.

- AC power input with power cord clip
- Sturdy handle and rugged housing for easy portability
- Lithium ion battery

USB port for easy software upgrades and data export
Nurse call output
LAN/Serial data export in HL7 format

Product Specifications

<table>
<thead>
<tr>
<th>Width, Height, Depth</th>
<th>W: 26cm (10.2in), H: 22cm (8.6in), D: 14.5cm (5.7in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>3.6kg (8lb) – excluding optional recorder</td>
</tr>
<tr>
<td>Screen</td>
<td>21.3cm (8.4in) SVGA TFT-AM LCD display, 800 active pixels/line. Resolution: 600 active lines per frame. Viewing angle ±60 degrees</td>
</tr>
</tbody>
</table>
| NBP                 | • Oscillometric using stepwise deflation pressure – NBP interval choices
  – Adult measurement range:
    – Systolic: 30 – 270mmHg (4.0 – 36.0kPa)
    – Diastolic: 10 – 245mmHg (1.3 – 32.7kPa)
    – MAP: 20 – 225mmHg (2.7 – 34.0kPa)
  – Pediatric measurement range:
    – Systolic: 30 – 180mmHg (4.0 – 24.0kPa)
    – Diastolic: 10 – 150mmHg (1.3 – 20.0kPa)
    – MAP: 20 – 160mmHg (2.7 – 21.3kPa)
  – Neonatal measurement range:
    – Systolic: 30 – 130mmHg (4.0 – 17.0kPa)
    – Diastolic: 10 – 100mmHg (1.3 – 13.3kPa)
    – MAP: 20 – 120mmHg (2.7 – 16.0kPa)
  – The NBP measurement has an accuracy over the ranges listed for the values:
    – Maximum standard deviation: 8mmHg
    – Maximum mean error: ±5mmHg
  – Subsequent Cuff Inflation (in NBP interval mode only):
    – The subsequent inflation pressure is determined automatically depending on the previous measurement and patient type |
| CO₂                 | • Measurement range: 0mmHg – 150mmHg
  • Total response time for adults: 3.9 seconds
  • Accuracy: 0mmHg – 38mmHg: ±2mmHg
  • 39 mmHg – 150mmHg: ±(5% of reading + 0.08% for every 1mmHg above 38mmHg)
  • Respiration rate range: 1 – 150rpm
  • Respiration accuracy: ±1rpm in the range of 0 – 70rpm, ±2rpm in the range of 71 – 120rpm, ±3rpm in the range of 121 – 150rpm |

Also Available

<table>
<thead>
<tr>
<th>To Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>SureSigns premium rollstand 989803176601</td>
</tr>
<tr>
<td>SureSigns standard rollstand 989803144001</td>
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<tr>
<td>Wall mount 989803144011</td>
</tr>
<tr>
<td>2D barcode scanner 989803147821</td>
</tr>
<tr>
<td>2D barcode scanner holder 989803191611</td>
</tr>
<tr>
<td>HS-1 2D barcode scanner 989803176611</td>
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<tr>
<td>HS-1 barcode scanner roll-stand insert 989803184701</td>
</tr>
<tr>
<td>Serial interface adapter 989803159601</td>
</tr>
<tr>
<td>Wireless upgrade kit 989803181201</td>
</tr>
<tr>
<td>Tympanic temperature upgrade kit 863293</td>
</tr>
<tr>
<td>Predictive temperature upgrade kit 863294</td>
</tr>
</tbody>
</table>

Premium rollstand includes an easy-to-clean molded basket that can swivel for easy positioning in tight spaces, and dedicated sections for accessories such as a barcode scanner, cleaning wipes, NBP cuffs, extra disposable temperature covers, and the SpO₂ sensor.
## Product Specifications (continued)

### SpO₂, Philips FAST-based
- Meets EN ISO 9919 standard
- Measurement range: 0 – 100%
- Pulse rate measurement range: 30bpm – 300bpm
- Pulse accuracy: greater of 2% and 1bpm

### SpO₂, Masimo SET®/Rainbow®
- SpO₂ measurement range: 0 – 100%
- SpO₂ accuracy: depends upon patient type and motion/no motion
- SpHb measurement range: no motion: 0 – 25.0g/dL
- SpHb accuracy: ±1g/dL over range of 8 – 17g/dL
- RRA measurement range: 0 breaths per minute to 70 breaths per minute
- RRA accuracy: 4 breaths per minute to 70 breaths per minute, ±1 breath per minute (>30kg)
- SpHb and RRA are only supported on adult and pediatric patients

### Temperature

#### Welch Allyn Predictive
- Modes: predictive and monitored
- Probe sites: oral, rectal or axillary
- Range: 26.7 – 43.3°C (80 – 110°F)
- Accuracy: ±0.1°C (±0.2°F) in monitoring mode

#### Covidien Tympanic
- Equivalency modes: ear (no adjustment), oral, core, and rectal (adjusted from ear)
- Range: 33 – 42.0°C (91.4 – 107.6°F)
- Accuracy (overall range): ±0.2°C (±0.4°F)
- Measurement response time: ≤2 seconds

#### Exergen Temporal
- Temperature range: 16 – 43°C (60.8 – 109.4°F)
- Accuracy: 0.1°C or 0.2°F
- Response time: approximately 1 second

### Battery
- Lithium ion: 10.8 – 11.1V (with a “202” form factor)
- Operating time: four hours with NBP every 15 minutes

### Data Output
- HL7 format, via Ethernet port
- Serial data

### Patient Type
- Adult, pediatric, neonatal

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## Ordering Information

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>863283</td>
<td>NBP, FAST-based SpO₂</td>
</tr>
<tr>
<td>A01</td>
<td>SpO₂ and NBP accessories included</td>
</tr>
<tr>
<td>A02</td>
<td>No accessories</td>
</tr>
</tbody>
</table>

### Temperature:
- T01: Welch Allyn Predictive Temperature
- T02: Covidien Tympanic Temperature
- T03: Exergen Temporal Temperature
- C05: Exergen Temporal Cap Holder

### Masimo:
- M01: Masimo SET SpO₂
- M02: Masimo Rainbow SpO₂, SpHb
- M03: Masimo Rainbow SpO₂, RRa
- M04: Masimo SpO₂, SpHb/LNCS, RRa cable
- N01: Adult NBP cuff

### Capnography:
- E01: Microstream CO₂

### Other:
- F01: FIPS (US only)
- R01: Recorder
- W01: 802.11 a/b/g Wireless

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