

# PHILIPS

## SureSigns

### VS4 vital signs monitor



# Act. Don't react.

## Spot subtle but significant deterioration early

Now vital signs can count for more. The SureSigns VS4 helps you track subtle signs of deterioration so you can document and escalate effectively. It simplifies your workflow with an intuitive touchscreen interface, and provides time-saving tools like QuickCapture and QuickCheck for documentation, and QuickAlerts (single- or multi-parameter modified Early Warning Scoring) to activate your hospital's Rapid Response Team (RRT) as appropriate. Now you can act decisively to provide targeted care when it can do the most good. Because it's wiser to act rather than react.

### Key advantages

- Brings configurable Early Warning Scores to the bedside to help you identify subtle signs of patient deterioration for decisive action
- Provides intuitive tools, such as QuickCapture to simplify documentation, and QuickAlerts to highlight patient deterioration for escalation
- Offers desired interfacing, using standard networking infrastructures and the latest security and encryption<sup>1</sup>

# Specs that matter, clinical **benefits that count**

Now there's a vital signs monitor that helps you identify subtle signs of patient deterioration early and act decisively. Alternate between spot check and frequent measurement of vitals. Capture and check values. Streamline your workflow.

## Simplify your workflow

- Touchscreen: color LED backlit screen
- **QuickCheck**
  - Caregiver authentication at the bedside
  - Patient ID and record validation at the bedside
  - Patient record review before export to EHR
- **QuickCapture**
  - Customize up to 40 parameters and observations entries for fast recall and reuse
- **QuickAlerts**
  - Choose Single or Modified Early Warning Scoring
  - MEWS on-device, auto-calculated at the bedside
  - MEWS remote, with Philips Guardian Solution
- **QuickNBP**
  - Provides fast NBP measurements
  - One-touch NBP on/off button
- **SpO<sub>2</sub>**
  - Choice of Philips FAST-based SpO<sub>2</sub> algorithm or Masimo® rainbow® SET® SpO<sub>2</sub>
  - Either choice is compatible with a wide variety of sensors
- **Microstream™ etCO<sub>2</sub> option**
  - Includes Integrated Pulmonary Index (IPI)
- **Temperature choices**
  - Welch Allyn® Predictive, Covidien™ tympanic, or Exergen® temporal
- **Biomedical and IT device maintenance tool kit**
- **Exergen TemporalScanner™ thermometer option**
  - With optional disposable covers for cost-savings
- **1D/2D/RFID barcode scanner**
  - Programmable to support consistent and reliable patient ID entry

### Other benefits

- Uses same supplies as all Philips monitors
- Time-sync with hospital or network clock
- Stores up to 800 patient records
- Confirmation of exported records easily seen in green
- LAN/serial data export in HL7 format
- Internal WiFi – 802.11 a/b/g option
- USB port for easy software upgrades and to import configuration settings
- Nurse call output
- Lithium ion battery
- Battery management, including a visible icon to show unit is plugged in and charging
- AC power input with power cord clip
- Sturdy handle and rugged housing for easy portability
- Compatible with SureSigns Dashboard (863315)



# Easy to use, **easy to maintain**

## Product specifications

Width, height, depth	W: 26 cm (10.2 in), H: 22 cm (8.6 in), D: 14.5 cm (5.7 in)	SpO <sub>2</sub> Philips FAST-based	Meets EN ISO 9919 standard <b>SpO<sub>2</sub> measurement range:</b> 0 – 100% <b>SpO<sub>2</sub> accuracy range:</b> 70 – 100% ±2-4% <b>Pulse rate measurement range:</b> 30 bpm – 300 bpm <b>Pulse accuracy:</b> within 2% or 1 bpm, whichever is greater
Weight	3.6 kg (8 lb)		
Screen	21.3 cm (8.4 in) SVGA TFT-AM LCD, resistive touchscreen, 800 active pixels/line <b>Resolution:</b> 600 active lines per frame <b>Viewing angle:</b> ±60 degrees		
NBP	<ul style="list-style-type: none"> <li>Oscillometric using stepwise deflation pressure – NBP interval choices</li> <li>Adult measurement range                             <ul style="list-style-type: none"> <li>Systolic: 30 – 270 mmHg (4.0 – 36.0 kPa)</li> <li>Diastolic: 10 – 240 mmHg (1.3 – 32.7 kPa)</li> <li>MAP: 20 – 250 mmHg (2.7 – 34.0 kPa)</li> </ul> </li> <li>Pediatric measurement range                             <ul style="list-style-type: none"> <li>Systolic: 30 – 180 mmHg (4.0 – 24.0 kPa)</li> <li>Diastolic: 10 – 150 mmHg (1.3 – 20.0 kPa)</li> <li>MAP: 20 – 160 mmHg (2.7 – 21.3 kPa)</li> </ul> </li> <li>Neonatal measurement range                             <ul style="list-style-type: none"> <li>Systolic: 30 – 130 mmHg (4.0 – 17.0 kPa)</li> <li>Diastolic: 10–100 mmHg (1.3 – 13.3 kPa)</li> <li>MAP: 20 – 120 mmHg (2.7 – 16.0 kPa)</li> </ul> </li> <li>The NBP measurement has an accuracy over the ranges listed for these values                             <ul style="list-style-type: none"> <li>Maximum standard deviation: 8 mmHg</li> <li>Maximum mean error: ±5 mmHg</li> </ul> </li> <li>Subsequent cuff inflation (in NBP interval mode only)                             <ul style="list-style-type: none"> <li>The subsequent inflation pressure is determined automatically depending on the previous measurement and patient type</li> </ul> </li> </ul>	SpO <sub>2</sub> Masimo rainbow SET  Temperature Welch Allyn® predictive  Temperature Covidien™ tympanic  Temperature Exergen® temporal  IntelliVue Guardian software	<b>SpO<sub>2</sub> measurement range:</b> 0 – 100% <b>SpO<sub>2</sub> accuracy:</b> depends upon patient type and motion/no motion  <b>Modes:</b> predictive and monitored <b>Probe sites:</b> oral, rectal, or axillary <b>Range:</b> <b>Monitor mode:</b> 26.7 – 43.3 °C (80.1 – 109.9 °F) <b>Predictive mode:</b> 34.4 – 40.6 °C (93.9 – 105.1 °F) <b>Accuracy:</b> ±0.1 °C (±0.2 °F) <b>Measurement time:</b> 4 – 6 seconds  <b>Equivalency modes:</b> ear (no adjustment), oral, core, and rectal (adjusted from ear) <b>Range:</b> 33 – 42.0 °C (91.4 – 107.6 °F) <b>Accuracy (overall range):</b> ±0.2 °C (±0.4 °F) <b>Measurement response time:</b> ≤ 2 seconds  <b>Range:</b> 16 – 43 °C (60.8 – 109.4 °F) <b>Accuracy:</b> ±0.1 °C (±0.2 °F) <b>Response time:</b> approximately 1 second  Adult only
CO <sub>2</sub>	<b>Measurement range:</b> 0 mmHg – 150 mmHg <b>Total response time for adults:</b> 3.9 seconds <b>Accuracy:</b> 0 mmHg – 38 mmHg: ±2 mmHg 39 mmHg – 150 mmHg: ±(5% of reading + 0.08% for every 1 mmHg above 38 mmHg) <b>Respiration rate range:</b> 1 – 150 bpm <b>Respiration accuracy:</b> ±1 bpm in the range of 0 – 70 bpm, ±2 bpm in the range of 71 – 120 bpm, ±3 bpm in the range of 121 – 150 bpm	Battery	Lithium ion, 10.8 – 11.1 V
		Data output	HL7 format, via Ethernet port Serial data
		Patient type	Adult, pediatric, neonatal



“An EWS system would be a major change in the hospital, especially from the nursing and medical records perspective.”

Archie Marangos, Biomed, Tufts Medical Center, Boston, MA

# Make **vital signs** count for more

Catch the subtle signs that signal patient deterioration. With the SureSigns VS4, you can act, not just react.

## Ordering information

Parameters	To order		
NBP, FAST-based SpO <sub>2</sub>	863283	SureSigns standard rollstand	989803144001
SpO <sub>2</sub> and NBP accessories included	A01	Wall mount	989803144011
No accessories	A02	2D barcode scanner	989803147821
<b>Temperature</b>		2D barcode scanner holder	989803191611
Welch Allyn predictive temperature	T01	HS-1 2D barcode scanner	989803176611
Covidien tympanic temperature	T02	HS-1 barcode scanner roll-stand insert	989803184701
Exergen temporal temperature	T03	Serial interface adapter	989803159601
Exergen temporal cap holder	C05	Wireless upgrade kit	989803181201
<b>SpO<sub>2</sub></b>		Tympanic temperature upgrade kit	863293
Masimo SpO <sub>2</sub> technology	M01	Predictive temperature upgrade kit	863294
<b>NBP</b>		Temporal temperature upgrade kit	863342
Adult NBP cuff	N01	IntelliVue Guardian software license	863357
<b>Capnography</b>		IntelliVue Guardian Gateway license	G02
Microstream CO <sub>2</sub>	E01	Recorder	R01
<b>Other</b>		802.11 a/b/g wireless	W01
FIPS (US only)	F01	<b>Also available</b>	<b>To order</b>
IntelliVue Guardian software license	G01	SureSigns premium rollstand	989803176601
IntelliVue Guardian Gateway license	G02		
Recorder	R01		
802.11 a/b/g wireless	W01		
		SpO <sub>2</sub> FAST to Masimo upgrade kit	863343
		Recorder upgrade kit	989803148491
		Microstream CO <sub>2</sub> upgrade kit	989803198801



Premium rollstand has an easy-to-clean molded basket that swivels 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 SpO<sub>2</sub> sensor.



<sup>1</sup> SureSigns VS4 has tested compatible with Cisco Compatible Extensions, Version 4. Go to [www.cisco.com/go/compatibledisclaimer](http://www.cisco.com/go/compatibledisclaimer) for complete disclaimer.

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