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[1]

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$_2$**
  - Choice of Philips FAST-based SpO$_2$ algorithm or Masimo® rainbow® SET® SpO$_2$
  - Either choice is compatible with a wide variety of sensors
- **Microstream™ etCO$_2$ 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)
Weight	3.6 kg (8 lb)
Screen	21.3 cm (8.4 in) SVGA TFT-AM LCD, resistive touchscreen, 800 active pixels/line **Resolution:** 600 active lines per frame **Viewing angle:** ±60 degrees

NBP	• Oscillometric using stepwise deflation pressure
	  – NBP interval choices
	• Adult measurement range
	  – Systolic: 30 – 270 mmHg (4.0 – 36.0 kPa)
	  – Diastolic: 10 – 240 mmHg (1.3 – 32.7 kPa)
	  – MAP: 20 – 250 mmHg (2.7 – 34.0 kPa)
	• Pediatric measurement range
	  – Systolic: 30 – 180 mmHg (4.0 – 24.0 kPa)
	  – Diastolic: 10 – 150 mmHg (1.3 – 20.0 kPa)
	  – MAP: 20 – 160 mmHg (2.7 – 21.3 kPa)
	• Neonatal measurement range
	  – Systolic: 30 – 130 mmHg (4.0 – 17.0 kPa)
	  – Diastolic: 10–100 mmHg (1.3 – 13.3 kPa)
	  – MAP: 20 – 120 mmHg (2.7 – 16.0 kPa)
	• The NBP measurement has an accuracy over the ranges listed for these values
	  – Maximum standard deviation: 8 mmHg
	  – Maximum mean error: ±5 mmHg
	• Subsequent cuff inflation (in NBP interval mode only)
	  – The subsequent inflation pressure is determined automatically depending on the previous measurement and patient type

CO_2	**Measurement range:** 0 mmHg – 150 mmHg **Total response time for adults:** 3.9 seconds **Accuracy:** 0 mmHg – 38 mmHg: ±2 mmHg 39 mmHg – 150 mmHg: ±(5% of reading + 0.08% for every 1 mmHg above 38 mmHg) **Respiration rate range:** 1 – 150 bpm **Respiration accuracy:** ±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
SpO_2 Philips FAST-based	Meets EN ISO 9919 standard **SpO_2 measurement range:** 0 – 100% **SpO_2 accuracy range:** 70 – 100% ±2-4% **Pulse rate measurement range:** 30 bpm – 300 bpm **Pulse accuracy:** within 2% or 1 bpm, whichever is greater
SpO_2 Masimo rainbow SET	**SpO_2 measurement range:** 0 – 100% **SpO_2 accuracy:** depends upon patient type and motion/no motion
Temperature Welch Allyn® predictive	**Modes:** predictive and monitored **Probe sites:** oral, rectal, or axillary **Range:** **Monitor mode:** 26.7 – 43.3 °C (80.1 – 109.9 °F) **Predictive mode:** 34.4 – 40.6 °C (93.9 – 105.1 °F) **Accuracy:** ±0.1 °C (±0.2 °F) **Measurement time:** 4 - 6 seconds
Temperature 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
Temperature Exergen® temporal	**Range:** 16 – 43 °C (60.8 – 109.4 °F) **Accuracy:** ±0.1 °C (±0.2 °F) **Response time:** approximately 1 second
IntelliVue Guardian software	Adult only
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_2	863283
SpO_2 and NBP accessories included	A01
No accessories	A02
Temperature	
Welch Allyn predictive temperature	T01
Covidien tympanic temperature	T02
Exergen temporal temperature	T03
Exergen temporal cap holder	C05
SpO_2	
Masimo SpO_2 technology	M01
NBP	
Adult NBP cuff	N01
Capnography	
Microstream CO_2	E01
Other	
FIPS (US only)	F01
IntelliVue Guardian software license	G01
IntelliVue Guardian Gateway license	G02
Recorder	R01
802.11 a/b/g wireless	W01

Also available	To order
SureSigns premium rollstand	989803176601

	To order
SureSigns standard rollstand	989803144001
Wall mount	989803144011
2D barcode scanner	989803147821
2D barcode scanner holder	989803191611
HS-1 2D barcode scanner	989803176611
HS-1 barcode scanner roll-stand insert	989803184701
Serial interface adapter	989803159601
Wireless upgrade kit	989803181201
Tympanic temperature upgrade kit	863293
Predictive temperature upgrade kit	863294
Temporal temperature upgrade kit	863342
IntelliVue Guardian software license	863357
SpO_2 FAST to Masimo upgrade kit	863343
Recorder upgrade kit	989803148491
Microstream CO2 up-grade 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_2 sensor.

www.philips.com/healthcare

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