PHILIPS

SureSigns

VS4 vital signs monitor

Supporting your processes, at the patient's side

Expand vital signs monitoring with SureSigns VS4

Responding to a variety of changing patient conditions means you have to be able to document and escalate effectively, without neglecting your other patients. You need a patient monitor that not only lets you alternate between spot check and frequent measurement of vitals, but that also helps you capture and check values, and document your observations and assessments.

The SureSigns VS4 simplifies your workflow with an intuitive touch-screen interface, tools like QuickCapture and QuickCheck for documentation, and QuickAlerts (single parameter Early Warning Scoring (EWS)) – to activate your hospital's Rapid Response Team (RRT). It provides you with versatility to support many of your monitoring processes.

Key advantages

- Easy change between spot check and frequent vital measurements, to help you cope with changing patient conditions
- Intuitive tools to simplify documentation and escalation processes
- Straightforward interfacing, using standard networking infrastructures and protocol[1]

The specs that matter,
the versatility

Functionality at a glance

Ease-of-use for caregivers, and IT and network informatics teams
- Touch screen: color LED backlit screen
- QuickCheck:
  - Caregiver authentication at the bedside
  - Patient record validation at the bedside
  - Patient record review before export to EHR
- QuickCapture: customize up to 20 observation and assessment entries,
  for fast recall and reuse
- QuickAlerts: supports hospital Rapid Response Team
- QuickNBP: for fast NBP measurements, One-touch NBP on/off button
- SpO_2 with a choice of Philips FAST-based SpO_2 algorithm, or Masimo® rainbow® SET® SpO_2 (including certain Masimo rainbow parameters). Either are compatible with a wide variety of sensors.
- Microstream™ $etCO_2$ option with Integrated Pulmonary Index (IPI)
- Temperature choices: predictive, tympanic, or temporal

- Exergen TemporalScanner™ thermometer option:
  - Accurate temperature with a gentle forehead scan
  - A 90% cost savings is provided because disposable covers are optional[2]
- Uses same supplies as all Philips monitors
- 2D barcode scanner accessory: programmable to support consistent
  and accurate patient ID entry
- 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 importing 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

that counts

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 SpO_2 sensor.

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) — excluding optional recorder
Screen	21.3 cm (8.4 in) SVGA TFT-AM LCD display, 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 – 245 mmHg (1.3 – 32.7 kPa)
	  – MAP: 20 – 225 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 the 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.

Also available

	To order
SureSigns premium rollstand	989803176601
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

Product specifications (continued)

SpO$_2$ Philips FAST-based	Meets EN ISO 9919 standard Measurement range: 0 − 100% Pulse rate measurement range: 30 bpm − 300 bpm Pulse accuracy: greater of 2% and 1 bpm
SpO$_2$ Masimo SET/rainbow®	SpO$_2$ measurement range: 0 − 100% SpO$_2$ accuracy: depends upon patient type and motion/no motion SpHb measurement range: no motion: 0 − 25.0 g/dL SpHb accuracy: ±1 g/dL over range of 8 − 17 g/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 SpHb and RRa are only supported on adult and pediatric patients (>10 kg)
Temperature Welch Allyn™ predictive	Modes: predictive and monitored Probe sites: oral, rectal or axillary Range: 26.7 − 43.3 °C (80 − 110 °F) in monitoring mode Accuracy: ±0.1 °C (±0.2 °F) in monitoring mode
Temperature Covidien tympanic	Equivalency modes: ear (no adjustment), oral, core, and rectal (adjusted from ear)
Monitor mode	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	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 − 11.1 V (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

Ordering information

863283	NBP, FAST-based SpO$_2$
A01	SpO$_2$ and NBP accessories included
A02	No accessories
Temperature:	
T01	Welch Allyn predictive temperature
T02	Covidien tympanic temperature
T03	Exergen temporal temperature
C05	Exergen temporal cap holder
SpO$_2$:	
M01	Masimo SET SpO$_2$
M02	Masimo rainbow SpO$_2$, SpHb
M03	Masimo rainbow SpO$_2$, RRa
C01	Masimo SpO$_2$ LNCS cable
C02	Masimo SpO$_2$, SpHb cable
C03	Masimo SpO$_2$, SpHb, RRa cable
C04	Masimo SpO$_2$, SpHb/LNCS, RRa cable
N01	Adult NBP cuff
Capnography:	
E01	Microstream CO$_2$
Other:	
F01	FIPS (US only)
R01	Recorder
W01	802.11 a/b/g Wireless

[1] SureSigns VS4 has tested compatible with Cisco Compatible Extensions, Version 4. Go to www.cisco.com/go/compatibledisclaimer for complete disclaimer.
[2] The vast majority of hospitals have approved the use of an alcohol or other hospital approved disinfectant wipe of the probe head between patients.

Please visit www.philips.com/suresigns
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