

EMR-validated Spot-check Vital Signs Monitor

seca
Precision for health

seca mVSA 535

- + Easy vitals capture of blood pressure, temperature, pulse rate and SpO₂ in less than 60 seconds
- + Quick and accurate blood pressure measurement in under 20 seconds
- + Configurable seca EQ BP® average mode (BP30) provides true screening of hypertension
- + seca scale connectivity through seca 360° proximity: One integration interface for all seca devices
- + Long lasting battery for up to 150 measurements on one single charge
- + Convincing data storage: All measurements stored and available for later processing
- + EMR-validated: transmit measured data directly to any Electronic Medical Record (EMR) system



Where ease meets accuracy

We know that the working environment for medical staff is complex. This is precisely why seca developed a spot-check monitor that simplifies and quickens the routine task of capturing vital signs. The seca mVSA is easy-to-use and self-explanatory with little to no training required for nursing staff. Just turn it on, start the measurement and see all basic vital signs at a glance.



Technical Data

GENERAL				
Dimensions (W x H x D)	9.9 x 10.3 x 10.9" / 254 x 262 x 278 mm (depending on configuration)			
Net weight	approx. 5.9 lbs / 2.7 kg (depending on configuration)			
Box dimensions (W x H x D)	11.4 x 19.3 x 15" / 290 x 490 x 380 mm			
Box gross weight	approx. 13.2 / 6 kg (depending on configuration)			
Box volume	0.053 m ³			
Display type	7" touchscreen display			
Medical device class	II			
Interfaces	Wi-Fi (IEEE 802.11 b/g/n), LAN (IEEE 802.3u), seca 360° proximity technology (proprietary)			
Ports	USB 2.0 (2 ports)			
Power supply	Internal power supply unit:		Mobile power supply:	
	Type	IEC 60320 C13	Type	Lithium-ion battery
	Supply voltage	100 V ~ - 240 V ~	Voltage	11.25 V
	Supply frequency	50 Hz - 60 Hz	Capacity	2950 mAh
	Current consumption	0.85 A	Range	approx. 5 h

Power consumption Standby (touchscreen display off, ON/OFF button green) <5 W; In operation (ON/OFF button white) <9 W; Operation (battery charging, monitor, ON/OFF button illuminated white) <35 W

BLOOD PRESSURE MEASUREMENT

Measuring method	Oscillometric, deflation or inflation measurement switchable between single measurement (seca EQ BP®) and configurable multiple measurements (BP 30)			
Measurement range	Deflation measurement:		Inflation measurement:	
	Systolic BP	25 mmHg - 280 mmHg	Systolic BP	77 mmHg - 200 mmHg
	Diastolic BP	10 mmHg - 220 mmHg	Diastolic BP	45 mmHg - 190 mmHg
Measurement accuracy (clinically validated according to ISO 81060)	Measurement accuracy of deflation measurement:		Measurement accuracy of inflation measurement:	
	Mean deviation systole	0.10 mmHg	Mean deviation systole	0.36 mmHg
	Standard deviation systole	3.24 mmHg	Standard deviation systole	4.27 mmHg
	Mean deviation diastole	-0.20 mmHg	Mean deviation diastole	-0.12 mmHg
	Standard deviation diastole	2.95 mmHg	Standard deviation diastole	3.78 mmHg
Measurement accuracy (under laboratory conditions)	max. +/- 3 mmHg / 2% (the larger value applies)			
Measurement certainty	Maximum cuff pressure 300 mmHg; automatic pressure release > 330 mmHg			
Measurement time	Normal: 15 - 20 seconds / max. 90 seconds (adults)			
Measuring range (PR)	Deflation measurement: 30 min ⁻¹ - 240 min ⁻¹ / Inflation measurement: 45 min ⁻¹ - 200 min ⁻¹			
Measurement accuracy (PR) (under laboratory conditions)	max. +/- 3 min ⁻¹ / 3% (the larger value applies)			

SpO₂

Masimo RD SET®	
Measurement method	Pulse oximetry
Measurement range (SpO ₂)	0 - 100 %
Measurement accuracy (SpO ₂)	SpO ₂ - resting = < 2 %;
	SpO ₂ - in motion = < 3 %
Measurement range (PR)	Pulse rate PR 25 bpm - 240 bpm; Perfusion index measurement range 0.02 % - 20 %
Measurement accuracy (PR)	PR - resting = < 3 bpm;
	PR - in motion = < 5 bpm

TEMPERATURE MEASUREMENT

Covidien Filac™ 3000	
Measurement methods	axillary/oral, rectal (direct or predictive)
Measurement range	direct 86 °F - 109.4 °F (30 °C - 43 °C)
	predictive 95.9 °F - 107.6 °F (35.5 °C - 42 °C)
Measurement accuracy	direct ± 0.1 °C (± 0.2 °F)
	predictive ± 0.1 °C (± 0.2 °F)
Measurement time	direct 60 - 120 seconds
	predictive (oral) 3 - 10 seconds
	predictive (axillary/rectal) 8 - 14 seconds

ACCESSORIES

Blood pressure	Blood pressure cuffs (reusable), sizes: XS = 13 - 20 cm (490 0024 001), S = 17 - 26 cm (490 0025 001), M = 24 - 32 cm (490 0026 001), L = 32 - 42 cm (490 0027 001), XL = 38 - 46 cm (490 0028 001), XXL = 42 - 54 cm (490 0029 001); air hose for blood pressure cuffs, length: 1.3 m (490 0033 001) or length: 3 m (490 0034 001)
SpO ₂	Masimo RD SET® SpO ₂ finger clip*; extension cable for Masimo RD SET® SpO ₂ sensors*
Temperature	Covidien Filac™ 3000, measurement methods axillary/oral, rectal (direct or predictive); Covidien Filac™ Probe Covers 490 0015 001 (1 packing unit = 2,000 pcs)
PC software	System compatible with seca EMR-validated measuring systems and scales
Mobile use	Mobile stand seca 475 0535 009, carrying case seca 432 0000 009, stand bracket seca 490 0017 001 for SmartBucket

*Obtainable directly from the manufacturer, see www.masimo.com.

We reserve the right to make modifications.

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