

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 EasyQuick BP™ average, sprint or single measurement mode (EQ BP™) provides true screening of hypertension
- + seca scale connectivity through seca 360° proximity: One integration interface for seca EMR-validated devices
- + Long lasting battery for up to 150 full sets of vitals on one single charge
- + Convincing data storage: All measurements stored and available for later processing
- + EMR-validated: transmit measured data directly to most Electronic Medical Record (EMR) systems



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		
Ports	USB 2.0 (2 ports)		
Power supply	Internal power supply unit:		Mobile power supply:
	Type	IEC 60320 C13	Type
	Supply voltage	100 V ~ - 240 V ~	Voltage
	Supply frequency	50 Hz - 60 Hz	Capacity
	Current consumption	0.85 A	Range
			Lithium-ion battery
			1080 V
			3350 mAh
			approx. 6 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, inflation or deflation measurement switchable between single measurement (seca EQ BP®) and configurable multiple measurements: seca EQ BP™ averaging mode (BP30) or seca EQ BP™ sprint mode (office mode)			
Measurement range	Deflation measurement:		Inflation measurement:
	Systolic BP	25 mmHg – 280 mmHg	Systolic BP
	Diastolic BP	10 mmHg – 220 mmHg	Diastolic BP
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
	Standard deviation systole	3.24 mmHg	Standard deviation systole
	Mean deviation diastole	-0.20 mmHg	Mean deviation diastole
	Standard deviation diastole	2.95 mmHg	Standard deviation diastole
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™ disposable 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 and wall mounting	Mobile stand seca 475 0535 009, carrying case seca 432 0000 009, wall mounting kit seca 490 0017 001

