

seca mVSA 535

Spot-check-monitor for customized configuration

new



- Conventional measurement of vital signs of blood pressure, SpO₂, pulse rate and temperature.
- Fast and easy assessment of body composition, e. g., fat mass, body water and muscle mass.
- Easy integration into any EMR system and connection to all seca 360° wireless products.
- Easy-to-understand graphic presentation of measurement results on the touchscreen monitor.
- Internal storage for results of approximately 70,000 measurements.
- Integrated replaceable rechargeable lithium ion battery in the monitor.

seca mVSA 535:

The world's first medical Vital Signs Analyzer with BIA measurement.

The complex device measures the conventional four vital parameters of blood pressure, SpO₂, pulse rate, and temperature as well as the complete body composition. This high-performance software communicates with any network and guarantees the error-free transmission of all measurement values to your EMR system.

Technical Data	
General	
Dimensions (WxHxD)	252 x 262 x 278 mm
Weight	In-ear thermometer version 3.7 kg
Display type	7" touchscreen display
Power supply	Built-in power adapter, internal rechargeable lithium-ion battery
Medical device class	Ila
Interfaces	Wi-Fi, Ethernet, USB 2.0, seca 360° wireless technology
Compatible printers	Conventional laser and ink jet printers via the seca analytics 115 PC software
Bioelectrical impedance analysis	
Measurement method	8-point Bioelectrical Impedance Analysis
Measurement frequencies	1; 2; 5; 10; 50; 100; 200; 500 kHz
Measurement segments	100 µA
Measurement current	Impedance (Z), Resistance (R), Reactance (Xc), Phase angle (φ)
Measurement time	30 seconds
Blood pressure measurement	
Measuring procedure	oscillometric
Measurement range	pSYS: 25–280 mmHg; pDIA: 10–220 mmHg; pMAP: 15–260 mmHg
Measurement accuracy	Accuracy of deflation measurement: Inflation measurement: Measurement accuracy – mean deviation < 1.7 mmHg Measurement accuracy – mean deviation < 1.19 mmHg Measurement accuracy – standard deviation < 5.6 mmHg Measurement accuracy – standard deviation < 3.48 mmHg
Measurement certainty	Excess pressure limit 300 mmHg; automatic pressure release at 330 mmHg
Measurement time	Normal: 15–20 sec / max. 90 sec (adults)
Pulse rate	Range 30–240 BPM; accuracy ± 2 BPM
SpO₂	
Measurement method	Pulse oximetry
Measurement range (SpO ₂)	SpO ₂ 0.0 % to 100.0 %
Measurement precision (SpO ₂)	SpO ₂ – resting (60 %–100 %) ± 2 Arms; SpO ₂ – in motion (70 %–100 %) ± 3 Arms
Measurement range (PR)	Pulse rate PR (Standard) 30 bpm to 240 bpm; Pulse rate PR (Enhanced) 20 bpm to 300 bpm
Measurement accuracy (PR)	PR – resting ≤ 2 bpm; PR – in motion n/a
Temperature measurement	
Measurement methods	Filac 3000® Direct, predictive Genius 2® Genius 2 operating manual ear
Measurement range	30–43 °C / 86–109 °F Direct ± 0.1 °C (± 0.2 °F) Predictive (for 95 % of measurements) ± 0.1 °C (± 0.2 °F) 33–42 °C / 91.4–107.6 °F 36–39 °C ± 0.2 °C / 96.8–102.2 °F ± 0.4 °F < 36 °C ± 0.3 °C / < 96.8 °F ± 0.5 °F > 39 °C ± 0.3 °C / > 102.2 °F ± 0.5 °F
Measurement accuracy	
Response time	Direct < 60 sec; Predictive (oral) < 10 sec; Predictive (axial/rectal) < 15 sec < 2 sec
Probe covers	490 0015 490 0016
Accessories	
Bioelectrical impedance analysis	seca mBCA 531 measuring mat for bioelectrical impedance analysis
Blood pressure	S: 20,5–28 cm; M: 27–35 cm; L: 34–43 cm; XL: 42–54 cm; extension cord for sphygmomanometer cuffs
SpO ₂	Finger clip (hard) for adults; finger clip (soft) for adults; finger clip (soft) for children; extension cord for seca SpO ₂ sensors
Temperature	In-ear thermometer
seca 360° wireless	seca 360° wireless PC software seca analytics 115 (with one workstation license included), system-compatible with seca 360° wireless measuring systems and scales
Mobile use	Rolling stand with basket seca 475, carrying case seca 432

