seca mVSA 535

Spot-check-monitor for customized configuration

new

- Conventional measurement of vital signs of blood pressure, SpO_2, 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®
Precision for health

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, SpO_2, 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	IIa	
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: Measurement accuracy – mean deviation < 1.7 mmHg Measurement accuracy – standard deviation < 5.6 mmHg	Inflation measurement: Measurement accuracy – mean deviation <1.19 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	
SpO_2		
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	**Filac 3000®**	**Genius® 2**
Measurement methods	Direct, predictive	Genius 2 operating manual ear
Measurement range	30–43 °C / 86–109 °F	33–42 °C / 91,4–107,6 °F
Measurement accuracy	Direct ± 0,1 °C (± 0,2 °F) Predictive (for 95 % of measurements) ± 0.1 °C (± 0.2 °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
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	

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