

# Spot-check-monitor for customized configuration

**seca**  
Precision for health

## seca mVSA 535

- + Precise measurement of vital signs: blood pressure, SpO<sub>2</sub>, pulse and temperature
- + Modular design for individual configuration
- + Easy-to-understand graphical presentation of the measurement results on the touchscreen monitor
- + Large internal memory for up to 70,000 measurements
- + Integrated replaceable rechargeable lithium-ion battery in the monitor
- + EMR-validated: transmit measured data directly to any Electronic Medical Record (EMR) system



# The Spot-check-monitor to ease your workflow

The easy-to-use device measures the primary four vital signs: blood pressure, SpO<sub>2</sub>, pulse rate, and temperature. With the wireless connectivity to all seca 360° products, height, weight and BMI are immediately and error-free available on the monitor.



## Technical Data

### GENERAL

Dimensions (W x H x D)	254 x 262 x 278 mm / 9.9 x 10.3 x 10.9"			
Net weight	approx. 4.6 kg / 10.1 lbs (depending on configuration)			
Box dimensions (W x H x D)	290 x 490 x 380 mm / 11.4 x 19.3 x 14.9"			
Box gross weight	approx. 6 kg / 13.2 lbs (depending on configuration)			
Box volume	0.053 m <sup>3</sup> / 1.87 ft <sup>3</sup>			
Display type	7" touchscreen display			
Interfaces	Wi-Fi (IEEE 802.11 b/g/n), LAN (IEEE 802.3u), USB 2.0 (2 ports), seca 360° wireless technology (proprietary)			
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			
Compatible printers	Microsoft® Windows®-compatible printer via seca analytics 115 PC software			

### BLOOD PRESSURE MEASUREMENT

Measuring method	oscillometric, deflation or inflation measurement				
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:				
	Mean deviation systole	0.10 mmHg		Measurement accuracy of inflation measurement:	
	Standard deviation systole	3.24 mmHg		Mean deviation systole	0.36 mmHg
	Mean deviation diastole	-0.20 mmHg		Standard deviation systole	4.27 mmHg
	Standard deviation diastole	2.95 mmHg		Mean deviation diastole	-0.12 mmHg
			Standard deviation diastole	3.78 mmHg	
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 <sup>-1</sup> - 240 min <sup>-1</sup> / Inflation measurement: 45 min <sup>-1</sup> - 200 min <sup>-1</sup>				
Measurement accuracy (PR) (under laboratory conditions)	max. +/- 3 min <sup>-1</sup> / 3% (the larger value applies)				

### SPO<sub>2</sub>

	<b>Masimo RD SET®</b>	
Measurement method	Spectrophotometry (red/infrared)	
Measurement range (SpO <sub>2</sub> )	0 - 100 %	
Measurement accuracy (SpO <sub>2</sub> )	SpO <sub>2</sub> (no motion) 70 % - 100 % ± 2 digits	
	SpO <sub>2</sub> (in motion) 70 % - 100 % ± 3 digits	
Measurement range (PR)	PR 25 bpm to 240 bpm Perfusion index measurement range 0.02 % - 20 %	
Measurement accuracy (PR)	PR (no motion) 25 min <sup>-1</sup> - 240 min <sup>-1</sup> ± 3 digits PR (in motion) 25 min <sup>-1</sup> - 240 min <sup>-1</sup> ± 5 digits	

### TEMPERATURE MEASUREMENT

	<b>COVIDIEN™ FILAC™ 3000</b>	
Measurement methods	axillary/oral, rectal (direct or predictive)	
Measurement range	direct 30 °C - 43 °C (86 °F - 109.4 °F)	
	predictive 35.5 °C - 42 °C (95.9 °F - 107.6 °F)	
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) 8 - 12 seconds	
	predictive (rectal) 10 - 14 seconds	
Probe covers	490 0015	

### ACCESSORIES

Blood pressure	Blood pressure cuffs, sizes: S: 17 - 26 cm (6.7 - 10.2"); M: 24 - 32 cm (9.4 - 12.6"); L: 32 - 42 cm (12.6 - 16.5"); XL: 38 - 46 cm (15 - 18.1"); extension tube for cuffs	
SpO <sub>2</sub>	Masimo RD SET Series sensors and patient cables*	
Temperature	COVIDIEN™ FILAC™ 3000 probe covers 490 0015	
seca 360° wireless	Optional wireless PC software seca analytics 115, system compatible with seca 360° wireless measuring systems and scales	
Mobile use	Rolling stand seca 4750535, carrying case seca 432	