Spot-check monitor for easy and quick vital signs assessment



seca mVSA 535

- + Precise measurement of vital signs: blood pressure, temperature, pulse rate and SpO₂
- + Modular design for choosing individual configurations
- + Easy-to-understand presentation of the measurement results on the touchscreen monitor
- + Large internal memory for up to 70,000 measurements
- + Integrated replaceable rechargeable lithium-ion battery
- + EMR-validated: transmit measured data directly to any Electronic Medical Record (EMR) system via HL7



The spot-check monitor to ease your workflow

The easy-to-use device measures the primary four vital signs: blood pressure, SpO₂, pulse rate, and temperature. The high-performance software communicates with any network and guarantees the error-free transmission of all measurement values to your EMR system.



Dimensions (W x H x D)			52 x 262 mm	
Net weight	approx. 3.0 kg (depending on configuration)			
Box dimensions (WxHxD)	290 x 490 x 380 mm			
Box gross weight Box volume	approx. 6 kg (depending on configuration) 0.053 m³			
Display type	7" touchscreen display			
Medical device class	lla			
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: Type Supply voltage Supply frequency Current consumption	IEC 60320 C13 100 V ~ - 240 V ~ 50 Hz - 60 Hz 0.85 A	Mobile power supply: Type Voltage Capacity Range	Lithium-ion battery 11.25 V 2950 mAh 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 meas	urement switchable between single r	measurement (seca EQ BP®) and configurab	ble multiple measurements (BP 30)
Measurement range	Deflation measurement: Systolic BP Diastolic BP	25 mmHg – 280 mmHg 10 mmHg – 220 mmHg	Inflation measurement: Systolic BP Diastolic BP	77 mmHg – 200 mmHg 45 mmHg – 190 mmHg
Measurement accurarcy (clinically validated according to ISO 81060)	Measurement accuracy of defla Mean deviation systole Standard deviation systole Mean deviation diastole Standard deviation diastole	tion measurement: 0.10 mmHg 3.24 mmHg -0.20 mmHg 2.95 mmHg	Measurement accuracy of inflat Mean deviation systole Standard deviation systole Mean deviation diastole Standard deviation diastole	tion measurement: 0.36 mmHg 4.27 mmHg -0.12 mmHg 3.78 mmHg
Measurement accuracy (under laboratory conditions)	max. +/- 3 mmHg / 2% (the larger values 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) Measurement accuracy (PR) (under laboratory conditions)	Deflation measurement: 30 min ⁻¹ – 240 min ⁻¹ / Inflation measurement: 45 min ⁻¹ – 200 min ⁻¹ max. +/- 3 min ⁻¹ / 3% (the larger value applies)			
SpO ₂				
Management and the state of	Masimo SET [®]		Seca	
Measurement method Measurement range (SpO,)	Pulse oxim		Pulse oximetry 0-100 %	
2		0-100%		-
Measurement accuracy (SpO ₂)	$SpO_2 - resting = < 2\%;$ $SpO_2 - in motion = < 3\%$			%
Measurement accuracy (OpO2)	SpO ₂ – in motion	n = < 3 %	SpO_2 – resting (60 % – SpO_2 – in motion (70 %	% 100 %) ± 2 A _{ms} ; −100 %) ± 3 A _{ms}
Measurement range (PR)	SpO ₂ – in motion Pulse rate PR 25 bp Perfusion index measuremen	n = < 3 % m-240 bpm; nt range 0.02 %-20 %	SpO ₂ – resting (60 % – SpO ₂ – in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced)	% 100%) ± 2 A _{ms} ; ⊢100%) ± 3 A _{ms} 30 bpm−240 bpm; 20 bpm−300 bpm
···· 2	SpO ₂ – in motion Pulse rate PR 25 bp	n = < 3 % m – 240 bpm; nt range 0.02 % – 20 % < 3 bpm;	$SpO_2 - resting (60 \% - SpO_2 - in motion (70 \%)SpO_2 - in motion (70 \%)Pulse rate PR (standard)$	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} 30 bpm-240 bpm; 20 bpm-300 bpm ∠ 2 bpm;
Measurement range (PR)	SpO ₂ – in motio Pulse rate PR 25 bp Perfusion index measuremer PR – resting = - PR – in motion =	n = < 3% m-240 bpm; nt range 0.02% - 20% < 3 bpm; < 5 bpm	SpO ₂ – resting (60 % – SpO ₂ – in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced) PR – resting = PR – in motio	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} 30 bpm -240 bpm; 20 bpm -300 bpm ∠ 2 bpm; n = n/a
Measurement range (PR) Measurement accuracy (PR) TEMPERATURE MEASUREMENT	SpO ₂ – in motio Pulse rate PR 25 bp Perfusion index measuremer PR – resting = - PR – in motion = Covidien Fila c	n = < 3 % m-240 bpm; ht range 0.02 % - 20 % < 3 bpm; < 5 bpm	SpO ₂ – resting (60 % – SpO ₂ – in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced) PR – resting = PR – in motio	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} 30 bpm-240 bpm; 20 bpm-300 bpm ≥ 2 bpm; n = n/a nius™ 3
Measurement range (PR) Measurement accuracy (PR)	SpO ₂ – in motion Pulse rate PR 25 bp Perfusion index measuremer PR – resting = - PR – in motion = Covidien Filac axillary/oral, rectal (dire	n = < 3 % m - 240 bpm; nt range 0.02 % - 20 % < 3 bpm; < 5 bpm ™ 3000 act or predictive)	SpO ₂ – resting (60 % – SpO ₂ – in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced) PR – resting = PR – in motio	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} 30 bpm-240 bpm; 20 bpm-300 bpm ≥ 2 bpm; n = n/a nius™ 3
Measurement range (PR) Measurement accuracy (PR) TEMPERATURE MEASUREMENT	SpO ₂ – in motion Pulse rate PR 25 bp Perfusion index measuremer PR – resting = - PR – in motion = Covidien Filac axillary/oral, rectal (dire direct 30 °C - predictive 35.5 °	n = < 3 % m - 240 bpm; trange 0.02 % - 20 % < 3 bpm; = < 5 bpm m 3000 ect or predictive) - 43 °C C - 42 °C	SpO ₂ - resting (60 % - SpO ₂ - in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced) PR - resting = PR - in motio	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} 30 bpm-240 bpm; 20 bpm-300 bpm 2 2 bpm; n = n/a hus™ 3 ect) °C
Measurement range (PR) Measurement accuracy (PR) TEMPERATURE MEASUREMENT Measurement methods	SpO ₂ – in motion Pulse rate PR 25 bp Perfusion index measuremer PR – resting = - PR – in motion = Covidien Filac axillary/oral, rectal (dire direct 30 °C -	n = < 3 % mm - 240 bpm; nt range 0.02 % - 20 % < 3 bpm; < 5 bpm *** 3000 ect or predictive) - 43 °C C - 42 °C 1 °C	SpO ₂ – resting (60 % – SpO ₂ – in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced) PR – resting = PR – in motio Covidien Ger in-ear (dir	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} 30 bpm - 240 bpm; 120 bpm - 300 bpm 2 2 bpm; in = n/a ius™ 3 ect) °C 16 °C - 33 °C
Measurement range (PR) Measurement accuracy (PR) TEMPERATURE MEASUREMENT Measurement methods Measurement range	SpO ₂ – in motion Pulse rate PR 25 bp Perfusion index measuremer PR – resting = ~ PR – in motion = Covidien Filac axillary/oral, rectal (dire direct 30 °C - predictive 35.5 °	n = < 3 % im -240 bpm; trange 0.02 % -20 % < 3 bpm; = < 5 bpm ; TM 3000 sect or predictive) -43 °C C - 42 °C 1 °C Seconds -10 seconds	SpO ₂ - resting (60 % - SpO ₂ - in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced) PR - resting =, PR - in motio Covidien Ger in-ear (dir 33 - 42	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} ; 30 bpm - 240 bpm; 20 bpm - 300 bpm ∠ 2 bpm; in = n/a hius™ 3 ect) °C x: 16 °C - 33 °C C - 42 °C ± 0.3 °C
Measurement range (PR) Measurement accuracy (PR) TEMPERATURE MEASUREMENT Measurement methods Measurement range Measurement accuracy	SpO ₂ - in motion Pulse rate PR 25 bp Perfusion index measuremer PR - resting = - PR - in motion = Covidien Filac axillary/oral, rectal (dire direct 30 °C - predictive 35.5 ° direct ± 0. predictive ± direct 60 - 120 predictive (oral) 3 -	n = < 3 % im -240 bpm; trange 0.02 % -20 % < 3 bpm; = < 5 bpm *** 3000 ect or predictive) -43 °C C - 42 °C 1 °C Seconds -10 seconds -10 seconds -10 seconds -10 seconds -10 seconds	SpO ₂ - resting (60 % - SpO ₂ - in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced) PR - resting = PR - in motio Covidien Ger in-ear (dir 33 - 42 Ambient temperature: 33 °	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} 30 bpm-240 bpm; 20 bpm-300 bpm 2 2 bpm; n = n/a in = n/a in = n/a in = c c c c c - 33 °C c - 42 °C ± 0.3 °C nds
Measurement range (PR) Measurement accuracy (PR) TEMPERATURE MEASUREMENT Measurement methods Measurement range Measurement accuracy Measurement time	SpO ₂ - in motion Pulse rate PR 25 bp Perfusion index measuremer PR - resting = - PR - in motion = Covidien Filac axillary/oral, rectal (dire direct 30 °C - predictive 35.5 ° direct ± 0. predictive ± direct 60 - 120 predictive (oral) 3 - predictive (axillary/recta	n = < 3 % mm - 240 bpm; ht range 0.02 % - 20 % < 3 bpm; < 5 bpm m 3000 ext or predictive) -43 °C C - 42 °C 1 °C 0.1 °C seconds -10 seconds a) 8 -14 seconds 5	SpO ₂ - resting (60 % - SpO ₂ - in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced) PR - resting = PR - in motio Covidien Ger in-ear (dir 33 - 42 ' Ambient temperature: Target temperature: 33 ° < 2 secor	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} 30 bpm-240 bpm; 20 bpm-300 bpm 2 2 bpm; n = n/a in = n/a in = n/a in = c c c c c - 33 °C c - 42 °C ± 0.3 °C nds
Measurement range (PR) Measurement accuracy (PR) TEMPERATURE MEASUREMENT Measurement methods Measurement range Measurement accuracy Measurement time Probe covers (disposable)	SpO ₂ - in motion Pulse rate PR 25 bp Perfusion index measureme PR - resting = - PR - in motion = Covidien Filac axillary/oral, rectal (dire direct 30 °C - predictive 35 - direct ± 0. predictive ± direct 60 - 120 predictive (axillary/recta 490 001	n = < 3 % im - 240 bpm; ht range 0.02 % - 20 % < 3 bpm; < 5 bpm *** 3000 act or predictive) -43 °C C - 42 °C 1 °C 0.1 °C seconds -10 seconds 10 seconds 10 seconds 5 Blood pressure cu	SpO ₂ - resting (60 % - SpO ₂ - in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced) PR - resting = PR - in motio Covidien Ger in-ear (dir 33 - 42 the Target temperature: 33 ° < 2 secor	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} 30 bpm - 240 bpm; 20 bpm - 300 bpm ∠ 2 bpm; in = n/a hius™ 3 ect) °C c - 42 °C ± 0.3 °C c - 42 °C ± 0.3 °C hds 16
Measurement range (PR) Measurement accuracy (PR) TEMPERATURE MEASUREMENT Measurement methods Measurement range Measurement accuracy Measurement time Probe covers (disposable) ACCESSORIES	SpO ₂ - in motion Pulse rate PR 25 bp Perfusion index measuremer PR - resting = - PR - in motion = Covidien Filac axillary/oral, rectal (dire direct 30 °C - predictive 35.5° direct ± 0. predictive 55.5° direct ± 0. predictive (oral) 3 - predictive (oral) 3 - predictive (axillary/recta 490 001 XS = 13 - 20 cm, S = 17 - 26 cm, M = seca SpO ₂ SoftFlap [®] finger cl	n = < 3 % m = 240 bpm; ht range 0.02 % - 20 % < 3 bpm; = < 5 bpm m 3000 act or predictive) - 43 °C C - 42 °C 1 °C 0.1 °C seconds -10 seconds 10 seconds 10 seconds 5 Blood pressure cu 24 - 32 cm, L = 32 - 42 cm, XL = 38 ip sensor for adults (reusable); seca	SpO ₂ - resting (60 % - SpO ₂ - in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced) PR - resting = PR - in motio Covidien Ger in-ear (dir 33 - 42 ° Ambient temperature Target temperature: 33 ° < 2 secor 490 001	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} 30 bpm-240 bpm; 20 bpm-300 bpm ∠ 2 bpm; in = n/a 10 s [™] 3 ect) °C C - 33 °C C - 42 °C ± 0.3 °C nds 16 16 16 16 13 m or 3 m) s and children (reusable);
Measurement range (PR) Measurement accuracy (PR) TEMPERATURE MEASUREMENT Measurement methods Measurement range Measurement accuracy Measurement time Probe covers (disposable) ACCESSORIES Blood pressure	SpO ₂ - in motion Pulse rate PR 25 bp Perfusion index measuremer PR - resting = - PR - in motion = Covidien Filac axillary/oral, rectal (dire direct 30 °C - predictive 35.5 ° direct ± 0. predictive (oral) 3 - predictive (oral) 3 - predictive (oral) 3 - predictive (axillary/recta 490 001 XS = 13 - 20 cm, S = 17 - 26 cm, M = seca SpO ₂ SoftFlap [®] finger cl Masimo SET [®] SpO ₂ fin	n = < 3 % mm - 240 bpm; ht range 0.02 % - 20 % < 3 bpm; < 5 bpm ⁷⁷⁴ 3000 ext or predictive) -43 °C C - 42 °C 1 °C 0.1 °C seconds -10 seconds -10	SpO ₂ - resting (60 % - SpO ₂ - in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced) PR - resting = , PR - in motio Covidien Ger in-ear (dir 33 - 42 ° Ambient temperature Target temperature: 33 ° < 2 secor 490 001 ffs (reusable), sizes: - 46 cm, XXL = 42 - 54 cm; air hose for blc SpO ₂ SoftCap [®] finger clip sensors for adults	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} 30 bpm-240 bpm; 20 bpm-300 bpm ∠ 2 bpm; in = n/a ius™ 3 ect) °C C - 33 °C C - 42 °C ± 0.3 °C nds 16 bod pressure cuffs (1.3 m or 3 m) s and children (reusable); eca SpO ₂ sensors
Measurement range (PR) Measurement accuracy (PR) TEMPERATURE MEASUREMENT Measurement methods Measurement range Measurement range Measurement accuracy Measurement time Probe covers (disposable) ACCESSORIES Blood pressure SpO2 Temperature PC software	SpO ₂ - in motion Pulse rate PR 25 bp Perfusion index measuremer PR - resting = - PR - in motion = Covidien Filad axillary/oral, rectal (dire direct 30 °C - predictive 35.5 ° direct ± 0. predictive ± 10 predictive ± 0 direct 60 - 120 predictive (axillary/rect 490 001 XS = 13 - 20 cm, S = 17 - 26 cm, M = seca SpO ₂ SoftFlap [®] finger cl Masimo SET® SpO ₂ fin Covidien Genius™ 3 therm Optional wireless PC soft	n = < 3 % im - 240 bpm; ht range 0.02 % - 20 % < 3 bpm; < 5 bpm *** 3000 act or predictive) - 43 °C C - 42 °C 1 °C 0.1 °C seconds 10 seconds 10 seconds 10 s - 14 seconds 5 Blood pressure cu 24 - 32 cm, L = 32 - 42 cm, XL = 38 ip sensor for adults (reusable); seca ger clip*; extension cable for Masimu iometer (in-ear); Covidien Filac™ 300 ware seca analytics 115, system cor	SpO ₂ - resting (60 % - SpO ₂ - in motion (70 % Pulse rate PR (standard) Pulse rate PR (enhanced) PR - resting = PR - in motio Covidien Ger in-ear (dir 33 - 42 ' Ambient temperature Target temperature: 33 ° < 2 secor 490 001 ffs (reusable), sizes: - 46 cm, XXL = 42 - 54 cm; air hose for blc SpO ₂ SoftCap [®] finger clip sensors for adults o SET [®] SpO ₂ sensors; extension cable for si 20, measurement methods axillary/oral, rect mpatible with seca EMR-validated measurin	% 100 %) ± 2 A _{ms} ; -100 %) ± 3 A _{ms} 30 bpm-240 bpm; 20 bpm-300 bpm ≤ 2 bpm; in = n/a ius [™] 3 ect) °C 16 °C - 33 °C C - 42 °C ± 0.3 °C ands 16 16 16 16 16 16 16 16 16 16
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