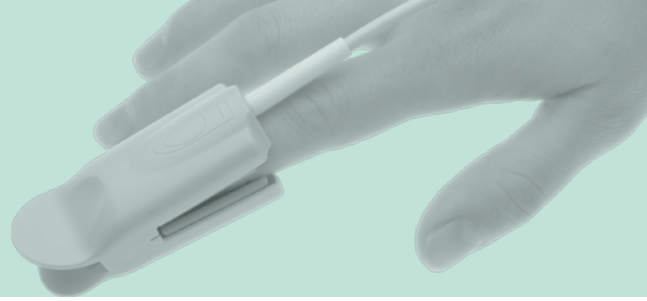




VM-2020

NIBP and SpO₂ Monitor

Ergonomic and lightweight ambulatory monitor that combines the very latest in blood pressure and pulse oximetry monitoring technologies

Utilizing patient-friendly blood pressure measurement during inflation of the cuff, halves the measurement time to just 17 seconds.

- Choice of blood pressure measurement: either during inflation or standard deflation measurement
- Choice of day and night time operating modes
- Up to 400 measurements or 30 hours of operation
- SMARTsat high performance SpO₂ technology provides accurate and reliable measurements
- Soft and flexible silicone pulse oximetry sensor optimizes patient comfort



Includes PC documentation software with graphical and tabular data for review.

Blood Pressure Measurement

Measuring Method	Oscillometric method, with VM-2020 inflation technology or classic deflation method
Typical Measurement Time	17 seconds
Measurement Interval	2 - 90 minutes, programmable
Capacity	400 measurements or 30 hours

Measurement Range

Systole	60 - 260 mmHg
Diastole	40 - 220 mmHg
Pulse Rate	35 - 240 bpm
Accuracy Blood Pressure	± 3 mmHg
Accuracy Pulse Rate	± 2 bpm

Pulse Oximetry

Measurement Method	SMARTsat SpO ₂ Technology
Sampling Rate	75 Hz
Value Update	Every 1, 2, 5 seconds
Sensor	SC7500LVM Silicone Finger Sensor, Cable Length 1.8m

Measurement Range

SpO ₂	0 - 100%
Pulse Rate	20 - 300 bpm
Accuracy SpO ₂ (no motion)	± 2 A _{RMS}
(motion)	± 3 A _{RMS}
Accuracy Pulse Rate (no motion)	± 3 A _{RMS}
(motion)	± 5 A _{RMS}

System

Storage Time	Unlimited
Patient Interface	LCD (measurement results, error codes)
Controls	Foil keypad (Start/Stop, Day/Night/Info)
PC Connection	USB 2.0
Dimensions	11 cm (L) x 8 cm (W) x 2.7 cm (H)
Weight	Approximately 190 g (with batteries)
Power Supply	2 x AA batteries
Maximum Operation Conditions	
Temperature Range	+10°C to +40°C
Relative Humidity	15 - 95% (non-condensing)
Air Pressure	700 - 1060 hPa
System Standards	DIN EN 60601-1 (2nd & 3rd edition), DIN EN 60601-1-2, DIN EN 60601-1-6
BP Measurements Standards	DIN EN 60601-1-6, DIN EN 60601-2-30, 80601-2-30, DIN EN ISO 81060-2
SpO ₂ Measurement Standards	DIN EN ISO 80601-2-61
SpO ₂ Sensor Standards	DIN EN ISO 10993-1, DIN EN ISO 10993-5, DIN EN ISO 10993-10

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