

RVS-100 ri-vital®

VITAL SIGNS MONITORING



Vital Signs Patient Monitors

RVS-100

ADVANCED VITAL SIGNS MONITOR

The RVS-100 is an advanced vital signs monitor which offers pulse oximetry, blood pressure and temperature measurements. The device has 'Monitor', 'Spot Check' and 'Triage' profile options and a high performance touchscreen. The RVS - 100 can communicate through a wired or wireless connection to the hospital's EMR, according to the HL7 standard. The highly flexible, modular design offers many configurations and settings to suit the needs of hospitals and clinics as well as office based and long-term care settings.



Key Features

- 3 measurement modes (Monitor, Spot-check, Triage)
- High-sensitivity 8" TFT colour touch screen with self-explanatory user interface and integrated help-function
- Displays SYS, DIA, MAP, Pulse, Temp, Plethysmogram
- Clinical grade NIBP* including averaging mode (2-5 readings)
- Riester*, Masimo* or Nellcor* Oximax SpO2
- Predictive Thermometer (Filac 3000)
- Connectivity with the EMR - follows the HL7 standard
- LAN Connectivity as standard
- Programmable alarms (audible, visible) with 3 priority levels
- Supports nurse call RJ11 port
- Available as wall, desk and floor model
- Internal memory for 5,000 measurements
- Lithium-ion battery with 11 hours run time (Automatic mode, 15min intervals)
- Li-ion battery with up to 17h ON-time
- 2 year warranty
- (*includes neonate mode)

Options

- Thermal printer (internal)
- Barcode reader
- Mobile stand including basket for storage (cuffs, sensors, cables)
- WiFi

Accessories supplied with monitor

- NIBP extension tube
- 2 cuffs (adult & adult large incl. connectors)
- SpO2 sensor adult
- SpO2 extension cable
- Oral temperature probe*
- Probe covers*
- (*only if pred. thermometer module is ordered)



Order information – Riester Vital Signs Monitor RVS-100

REF Description

1960-RNBXE NIBP (Riester) + SpO2 (Nellcor)
 + Pred. Temp
1960-RNBPE NIBP (Riester) + SpO2 (Nellcor)
 + Pred. Temp + Printer



Basket for accessories including cable management



Integrated thermal printer (optional)

13317 Mobile Stand (basket included)

12669 Oral probe (blue) for predictive thermometer
12668 Rectal probe (red) for predictive thermometer
12688 Probe covers for predictive thermometer,
 pack of 500 ea (25 x 20 ea)

13303 SpO2-Sensor Nellcor Neonatal
13304 SpO2-Sensor Nellcor Children
13305 SpO2-Sensor Nellcor Adult



Portable Device with an easy to hold handle



Intuitive user interface
highly responsive touch screen

RVS-100

RIESTER VITAL SIGNS MONITORS

Technical Data

Monitor

Power Supply:	100 – 240 V AC, 50/60 Hz
Battery:	Lithium-Ion battery, rechargeable, 10.8 V DC, 6,600 mAh, Charging time to a 100%: 6 hours, Operating time approx. 11 hours (new and fully charged battery at 25°C ambient temperature with connected SpO2, Temp, and NIBP on AUTO mode (15 minutes interval)) Low battery indicator Charging battery indicator
Dimensions Monitor:	L x H x W: 303 x 230 x 110 mm (11.93 x 9.05 x 4.33 in)
Weight:	3600 g, (7.94 lb) including temp module, printer,
Dimensions Basket:	L x H x W: 270 x 225 x 200 mm (10.63 x 8.86 x 7.87 in)
Alarm:	Visible LEDs (Yellow, Red, Blue, Green, Orange) Audible Speaker Gives audible alarm, QRS tone Supports Pitch Tone and multi-level volume Alarm tones meet the requirement of IEC 60601-1-8. Alarm Pressure: 45 dB to 85 dB test distance is 1 meter from the tone.
Ports:	1 x AC power inlet 1 x standard RJ45 interfaces.100 BASE-TX, IEEE 802.3 4 x USB ports 1 x Equipotential grounding point 1 x RJ11 connector for nurse call DC out port 15V/1.2 A

Clinical-grade NIBP (non-invasive blood pressure)

Measuring method:	automatic oscillometric
Measurement range:	Adult SYS 30 – 270 mmHg, DIA 10 – 220 mmHg, MAP 20 – 235 mmHg Pediatric SYS 30 – 235 mmHg, DIA 10 – 220 mmHg, MAP 20 – 225 mmHg Neonate SYS 30-135 mmHg, DIA 10-110 mmHg, MAP 20-125 mmHg
Cuff pressure range:	0 – 280 mmHg
Resolution:	1 mmHg
Pressure accuracy:	Static ±3 mmHg Clinic ±5 mmHg, standard deviation ≤ 8 mmHg
Pulse rate range:	40 – 240 bpm
Pulse rate accuracy:	1 bpm
Initial inflation pressure:	Adult 160 mmHg, Pediatric 130 mmHg, Neonate 75 mmHg Double overpressure protection (hardware and software) Adult 297 ± 3 mmHg, Pediatric 252 ± 3 mmHg, Neonate 147 ± 3 mmHg
Alarm range:	SYS 0 – 300 mmHg DIA 0 – 300 mmHg MAP 0 – 300 mmHg

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Nellcor SpO2	Measurement range:	0-100%
	Resolution:	1%
	Accuracy:	70 – 100%: ±2% (adult, pediatric)
		70 – 100%: ±3% (neonate)
		0 – 69%: unspecified
	Alarm range:	0 – 100%
	Average time:	8 sec, 16 sec
	Pulse rate	
	Measurement range:	20 – 300 bpm
	Resolution:	1 bpm
	Accuracy:	20 – 250 bpm: ±3 bpm
		251 – 300 bpm: unspecified

Predictive thermometer

<ul style="list-style-type: none"> • Oral (Quick Mode) • Oral (Standard Mode): • Axillary Mode: • Rectal Mode: • Direct Mode (all sites): • Measurement accuracy: 	non-fever temps:	3-5 seconds
	fever temps:	8-10 seconds
		6-10 seconds
		8-12 seconds
		10-14 seconds
		60-120 seconds
		35.5°C - 42°C
	Direct Mode (all sites):	±0.1°C (±0.2°F)
	Standard Prediction Mode (all sites):	±0.1°C (±0.2°F)
	Quick Prediction Mode (oral only):	± 0.3°C (±0.5°)