

# RVS-100

## VITAL SIGNS MONITOR



Intuitive user interface with highly responsive touch screen

'Early Warning Scores' view mode

EWS/NEWS Parameter Trend

Riester tymPRO connected bluetooth thermometer

The Riester **RVS-100** vital signs monitor is an easy to use touchscreen monitor, offering pulse oximetry, blood pressure and temperature measurements. The Riester tymPRO, tympanic and sensioPRO contactless thermometers connect via bluetooth to give temperature readings in seconds, providing all your patients vital signs in one place. With early warning score abilities 'EWS', 'NEWS' the **RVS-100** vital signs monitor can meet your hospital systems care needs, from a basic spot check monitor, to a more advanced multi parameter monitor.

# RVS-100

## VITAL SIGNS MONITOR



### 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
- › EWS, NEWS and MEWS for early detection to improve patient outcomes
- › Clinical grade NIBP\* including averaging mode (2 - 5 readings)
- › Bluetooth Connectivity to Riester 'tymPRO' and 'sensioPRO' thermometers
- › Riester\*, Masimo\* or Nellcor\* Oximax SpO2
- › Predictive Thermometer (Filac 3000)
- › Connectivity with the EMR - using 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



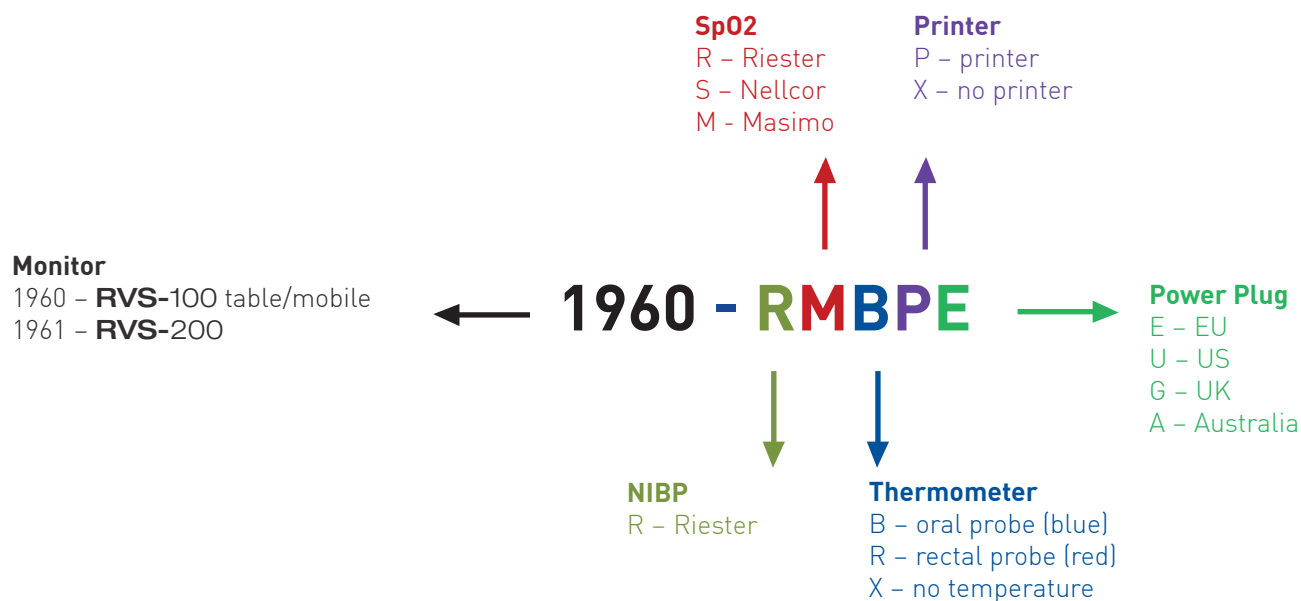
### Accessories supplied with monitor

- › 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]

# RVS-100

## ORDER INFORMATION

\*For spot check only version add "S" before code



**Integrated thermal printer (optional)**



**Port Overview**



**Portable Device with an easy to hold handle**



**Basket for accessories including cable management**



**Barcode Reader**

1960-RRXXE	<b>RVS-100</b> , NIBP (Riester), SpO2 (Riester), EU plug
1960-RRBXE	<b>RVS-100</b> , NIBP (Riester), SpO2 (Riester), Pred. Temp, EU plug
1960-RRXPE	<b>RVS-100</b> , NIBP (Riester), SpO2 (Riester), Printer, EU plug
1960-RRBPE	<b>RVS-100</b> , NIBP (Riester), SpO2 (Riester), Pred. Temp, Printer, EU plug
1960-RNXXE	<b>RVS-100</b> , NIBP (Riester), SpO2 (Nellcor), EU plug
1960-RNBXE	<b>RVS-100</b> , NIBP (Riester), SpO2 (Nellcor), Pred. Temp, EU plug
1960-RNBPE	<b>RVS-100</b> , NIBP (Riester), SpO2 (Nellcor), Pred. Temp, Printer, EU plug
1960-RMXXE	<b>RVS-100</b> , NIBP (Riester), SpO2 (Masimo), EU plug
1960-RMBXE	<b>RVS-100</b> , NIBP (Riester), SpO2 (Masimo), Pred. Temp, EU plug
1960-RMBPE	<b>RVS-100</b> , NIBP (Riester), SpO2 (Masimo), Pred. Temp, Printer, EU plug
1960-RRXPG	<b>RVS-100</b> , NIBP (Riester), SpO2 (Masimo), Printer, UK Plug

# RVS-200

## RIESTER VITAL SIGNS WALL DIAGNOSTIC SYSTEM

The Riester **RVS-200** wall diagnostic system is the unique combination of an advanced vital signs monitor and a modular diagnostic station. The highly flexible modular design allows for different configurations, to suit individual needs and reduce instrument complexity.



### Key Features

- › Includes all **RVS-100** features
- › Power supply for up to 3 diagnostic handles
- › Maintenance-free HighPerformance LED illumination
- › Wide range of EENT ri-scope L instruments
- › Integrated Specula dispenser
- › Easy and discrete mounting

### Options

- › Thermal printer (internal)
- › Barcode reader
- › WiFi

**Instrument Heads are SOLD SEPARATELY**

1961-RRXXE	<b>RVS-200</b> , NIBP (Riester), SpO2 (Riester), EU plug
1961-RRBXE	<b>RVS-200</b> , NIBP (Riester), SpO2 (Riester), Pred. Temp, EU plug
1961-RRBPE	<b>RVS-200</b> , NIBP (Riester), SpO2 (Riester), Pred. Temp, Printer, EU plug

Additional configurations are available. For more information, contact Riester at [info@Riester.de](mailto:info@Riester.de)

### RVS-100 / 200 Accessories

1840-BT	Non-contact thermometer ri-thermo® <b>sensioPRO+</b> Bluetooth
1835-BT	Tympanic thermometer ri-thermo® <b>tymPRO+</b> Bluetooth
12634	Probe cover for ri-thermo® <b>tymPRO</b> 1 rack/10 pcs.
12640	Probe cover for ri-thermo® <b>tymPRO</b> 30 racks/300 pcs.
13315	Barcode reader
13316	Wi-Fi for <b>RVS-100</b>
13317	Mobile stand with basket
13324	Wall mount basket
13333	NIBP extension tube with connector
13321	Paper roll for printer <b>RVS-100</b> , pack of 20 pcs.
12668	Rectal Probe Filac 3000, length 2.7 m
12669	Oral / Axillary Probe Filac 3000, length 2.7 m
12688	Single probe covers predictive thermometer, pack of 500 pcs.
13347	Bluetooth USB-Dongle for <b>RVS-100</b>

### Cuffs

107	Velcro cuff (adult) 54.5 x 14.5 cm, 1 tube, black
122	Velcro cuff (large adult) 70 x 15 cm, 1 tube, black
129	Velcro cuff (children) 35.5 x 10 cm, 1 tube, blue
134	Velcro cuff (newborn) 15.5 x 5 cm, 1 tube, blue

### SpO2 Sensor

13300	SpO2 sensor Riester neonatal for <b>RVS-100</b>
13301	SpO2 sensor Riester children for <b>RVS-100</b>
13302	SpO2 sensor Riester adult for <b>RVS-100</b>
13303	SpO2 sensor Nellcor neonatal for <b>RVS-100</b>
3304	SpO2 sensor Nellcor children for <b>RVS-100</b>
13305	SpO2 sensor Nellcor adults for <b>RVS-100</b>
13345	SpO2 sensor Masimo neonatal for <b>RVS-100</b>
13344	SpO2 sensor Masimo children for <b>RVS-100</b>
13343	SpO2 sensor Masimo adult for <b>RVS-100</b>

### Instrument Heads

10512-301	<b>EliteVue</b> head only, LED 3.5V with anti-theft security
10565-301	<b>ri-scope</b> ® L2 otoscope head, LED 3.5 V with anti-theft security
10567-301	<b>ri-scope</b> ® L3 otoscope head, LED 3.5 V with anti-theft security
10594-301	<b>ri-scope</b> ® L1 ophthalmoscope head, LED 3.5 V with anti-theft security
10595-301	<b>ri-scope</b> ® L2 ophthalmoscope head, LED 3.5 V with anti-theft security
10596-301	<b>ri-scope</b> ® L3 ophthalmoscope head, LED 3.5 V with anti-theft security

Additional instrument heads are available.

# RVS-100

## TECHNICAL DATA

### Monitor

<b>Power Supply:</b>	100 - 240 V AC, 50/60 Hz
<b>Battery:</b>	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 SpO <sub>2</sub> , Temp, and NIBP on AUTO mode (15 minutes interval)) Low battery indicator Charging battery indicator
<b>Dimensions Monitor:</b>	L x H x W: 303 x 230 x 110 mm (11.93 x 9.05 x 4.33 in)
<b>Weight:</b>	3600 g, (7.94 lb) including temp module, printer,
<b>Dimensions Basket:</b>	L x H x W: 270 x 225 x 200 mm (10.63 x 8.86 x 7.87 in)
<b>Alarm:</b>	Visible LEDs (Red, Yellow, Cyan) 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.
<b>Ports:</b>	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)

<b>Measuring method:</b>	automatic oscillometric
<b>Measurement range:</b>	<b>Adult</b> SYS 30 - 270 mmHg, DIA 10 - 220 mmHg, MAP 20 - 235 mmHg <b>Pediatric</b> SYS 30 - 235 mmHg, DIA 10 - 220 mmHg, MAP 20 - 225 mmHg <b>Neonate</b> SYS 30 - 135 mmHg, DIA 10 - 110 mmHg, MAP 20 - 125 mmHg
<b>Cuff pressure range:</b>	0 - 280 mmHg
<b>Resolution:</b>	1 mmHg
<b>Pressure accuracy:</b>	Static ±3 mmHg Clinic ±5 mmHg, standard deviation ≤ 8 mmHg
<b>Pulse rate range:</b>	40 - 240 bpm
<b>Pulse rate accuracy:</b>	1 bpm
<b>Initial inflation pressure:</b>	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
<b>Alarm range:</b>	SYS 0 - 300 mmHg DIA 0 - 300 mmHg MAP 0 - 300 mmHg



# RVS-100

## TECHNICAL DATA

### Riester SpO2

<b>Measurement range:</b>	0 - 100 %
<b>Resolution:</b>	1 %
<b>Accuracy:</b>	±2 % (70 % to 100 %) ±3 % (40 % to 69 %) Unspecified (0 % to 39 %)
<b>Alarm range:</b>	0 - 100 %
<b>Average time:</b>	4 sec, 8 sec, 16 sec
<b>Pulse rate range:</b>	20 - 250 bpm
<b>Resolution:</b>	1 bpm
<b>Accuracy:</b>	±1 % or ± 1 bpm whichever is greater

### Nellcor SpO2

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

### Masimo SpO2

<b>Measurement range:</b>	0 - 100%
<b>Resolution:</b>	1%
<b>Accuracy:</b>	70 - 100 %: ±2 % (adult, pediatric, non-motion conditions) 70 - 100 %: ±3 % (neonate, non-motion conditions) 70 - 100 %: ±3 % (motion conditions) 0 - 69 %: unspecified
<b>Average time:</b>	2 - 4 sec, 4 - 6 sec, 8 sec, 10 sec, 12 sec, 14 sec, 16 sec
<b>Pulse rate range:</b>	25 - 240 bpm
<b>Resolution:</b>	1 bpm
<b>Accuracy:</b>	±3 bpm (non-motion conditions) ±5 bpm (motion conditions)

### Predictive thermometer

▶ Oral ( Quick Mode )	non-fever temps: 3 - 5 seconds fever temps: 8 - 10 seconds
▶ Oral ( Standard Mode ):	6 - 10 seconds
▶ Axillary Mode:	8 - 12 seconds
▶ Rectal Mode:	10 - 14 seconds
▶ Direct Mode (all sites):	60 - 120 seconds
▶ Measurement accuracy:	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 °F)

Please visit [riester.de](https://riester.de) for more information