

# **RVS-**100/200 **ri-**vital®



**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 Sp02
- 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)
- \//iE

### Accessories supplied with monitor

- NIBP extension tube
- 2 cuffs (adult & adult large incl. connectors)
- Sp02 sensor adult
- Sp02 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-RRXXE 1960-RRBXE	NIBP (Riester) + Sp02 (Riester) NIBP (Riester) + Sp02 (Riester)
1960-RRBPE	+ Pred. Temp NIBP (Riester) + Sp02 (Riester)
1960-RNXXE	+ Pred. Temp + Printer NIBP (Riester) + Sp02 (Nellcor)
1960-RNBXE	NIBP (Riester) + Sp02 (Nellcor) + Pred. Temp
1960-RNBPE	NIBP (Riester) + Sp02 (Nellcor) + Pred. Temp + Printer
1960-RMXXE 1960-RMBXE	NIBP (Riester) + Sp02 (Masimo) NIBP (Riester) + Sp02 (Masimo) + Pred. Temp
1960-RMBPE	NIBP (Riester) + Sp02 (Masimo) + Pred. Temp + Printer
13315 13317	Barcode Reader Mobile Stand (basket included)
12669 12668 12688	Oral probe (blue) for predictive thermometer Rectal probe (red) for predictive thermometer Probe covers for predictive thermometer, pack of 500 ea (25 x 20 ea)
13300	Sp02-Sensor Riester Neonatal
13301 13302	Sp02-Sensor Riester Children Sp02-Sensor Riester Adult
13303 13304	Sp02-Sensor Nellcor Neonatal Sp02-Sensor Nellcor Children
13305 13306	Sp02-Sensor Nellcor Adult Sp02-Sensor Masimo Neonatal
13307 13308	Sp02-Sensor Masimo Children Sp02-Sensor Masimo Adult



Barcode Reader



Basket for accessories including cable management



Integrated thermal printer (optional)



Port Overview



Portable Device with an easy to hold handle



Intuitive user interface highly responsive touch screen

### **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





REF	Description
1961-RRXXE	NIBP (Riester) + Sp02 (Riester)
1961-RRBXE	NIBP (Riester) + Sp02 (Riester) + Pred. Temp
1961-RRBPE	NIBP (Riester) + Sp02 (Riester) + Pred. Temp + Printer
1961-RNXXE	NIBP (Riester) + Sp02 (Nellcor)
1961-RNBXE	NIBP (Riester) + SpO2 (Nellcor) + Pred. Temp
1961-RNBPE	NIBP (Riester) + Sp02 (Nellcor) + Pred. Temp + Printer
1961-RMXXE	NIBP (Riester) + Sp02 (Masimo)
1961-RMBXE	NIBP (Riester) + Sp02 (Masimo) + Pred. Temp
1961-RMBPE	NIBP (Riester) + Sp02 (Masimo) + Pred. Temp + Printer

# RVS-100/200 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 Sp02, 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  $(10.63 \times 8.86 \times 7.87 \text{ in})$ 

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

# RVS-100/200 RIESTER VITAL SIGNS MONITORS

#### **Technical Data**

**Riester Sp02** Measurement range: 0 – 100% Resolution: 1%

Resolution: 1%
Accuracy: ±2%

Accuracy: ±2%(70 to 100%) ±3% (40% to 69%) Unspecified (0% to 39%)

Alarm range: 0 – 100%

Average time: 4 sec, 8 sec, 16 sec

Pulse rate

Measurement range: 20 – 250 bpm Resolution: 1 bpm

Accuracy:  $\pm 1\%$  or  $\pm 1$  bpm whichever is greater

Nellcor Sp02 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

Masimo Sp02Measurement range:0 - 100%Resolution:1%

Accuracy: 70 – 100%: ±2% (adult, pediatric, non-motion conditions)

70 – 100%: ±3% (neonate, non-motion conditions)

70 – 100%: ±3% (motion conditions)

0 - 69%: unspecified

Average time: 2 – 4 sec, 4 – 6 sec, 8 sec, 10 sec, 12 sec, 14 sec, 16 sec

Pulse rate

Measurement range: 25 – 240 bpm Resolution: 1 bpm

Accuracy: ±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 ):
Axillary Mode:
Rectal Mode:
Direct Mode (all sites):
Measurement accuracy:
6-10 seconds
10-14 seconds
60-120 seconds
35.5°C - 42°C

Direct Mode (all sites):  $\pm 0.1^{\circ}\text{C} (\pm 0.2^{\circ}\text{F})$ Standard Prediction Mode (all sites):  $\pm 0.1^{\circ}\text{C} (\pm 0.2^{\circ}\text{F})$ Quick Prediction Mode (oral only):  $\pm 0.3^{\circ}\text{C} (\pm 0.5^{\circ})$ 

# ri-vital®

### **SPOT-CHECK VITAL SIGNS MONITOR**

#### ri-vital® spot-check monitor

Engineered for the mobile and fast recording of vital signs. Clinically validated for adults as well as newborns weighing as little as 1kg (2.2 lb). Simultaneous measurement of different vital signs within seconds.

#### Coloured 4.3" TFT display (SYS, DIA, MAP, pulse, Sp02, Temp, plethysmogram)

- Temperature alternatively with infrared technology for the ear measurement or with Filac™ 3000 for the oral/rectal measurement including probe dispenser.
- Memory function for measurement readings and infrared interface for thermo printer.
- Options:

# External wireless printer Filac™ 3000 predictive oral/rectal thermometer Ear thermometer

#### New mobile stand, brand-new Riester design

- Shock resistant.
- NIBP with mode for adults and neonates.
   Washable and disinfectable cuffs with coiled tube, extendable up to 2 m [78.74 in].
- Sp02 sensors with a cable length of 1.2 m (47.24 in) or optional 2.40 m (94.49 in).
   Optional with PEARL measuring technology for the use with critical patients (e. g. neonates).
- Easy handling via membrane keyboard (disinfectable) and self-explanatory menu.
- Practical storage facilities for accessories (cuffs, sensors, cable, probe covers).
- Efficient and lightweight rechargeable Li-ion battery pack (approx. 250 measurements).
- Portable version or mounted on a stable and smooth running mobile stand with large basket and optional printer holder.
- 2 year warranty, excluding spare parts and accessories.



# ri-vital®

Ordering information:		Technical data:	
<b>ri-vital®</b> NIBP, Sp02, bladderless cuffs for adults and large adults, fi nger sensor for adults	1950-107	Pulsoximeter: Measurement range Sp02:	0100 % Sp02
<b>ri-vital®</b> NIBP, Sp02, bladderless cuffs for adults and large adults, Finger sensor for adults, ear thermometer	1951-107	Display range: Accuracy:	099 % Sp02 Adults ± 2 % (70–100 %) Children ± 3 % (70–100 %)
ri-vital® NIBP, Sp02, bladderless cuffs for adults and large adults, fi nger sensor for adults, oral/axillary thermometer	1953-107	Pulse measurement range: Accuracy:	30250 bpm ± 1%
ri-vital® NIBP, Sp02, bladderless cuffs for adults and large adults, fi nger sensor for adults, rectal thermometer	1954-107	Blood pressure: Measurement range:	2 280 mmHg (systole) 15 260 mmHg (MAP)
ri-vital® NIBP, Sp02, bladderless cuffs for adults and larg adults, finger sensor for adults	e 1955-107	Neonates:	10 220 mmHg (diastole) 20155 mmHg (systole) 10130 mmHg (MAP)
ri-vital® NIBP, PEARL-Sp02, bladderless cuffs for adults and large adults, fi nger sensor for adults, oral/axillary thermometer	1956-107	Overpressure protection:	5110 mmHg (diastole) 300 mmHg
ri-vital® NIBP, PEARL-Sp02, bladderless cuffs for adults and large adults, fi nger sensor for adults, oral/axillary		Miscellaneous:	Independent protection system against excess pressures acc. to EN1060-3
ri-vital® NIBP, PEARL-Sp02, bladderless cuffs for adults and large adults, fi nger sensor for adults, rectal	1957-107	Measurement accuracy: Deviation from average value: Battery: Operation time:	acc. to EN1060-4:2005 < 5 mmHg ri-accu® L 7.4 V Li-Ion battery approx. 250 measurements NIBP
thermometer  Extension module for infrared printer (holder and printer)	1958-107 12667	Charging time:	and Sp02 8 hours
Mobile stand with basket and holder for the mains adapter	12660	Mains adapter:	AC/DC adapter plug with connector according
Bladderless cuff for neonates	156	Basket:	IEC60320-C13, 100 V-240 V 250mm / 9.84 in (L) x 150mm / 5.9 in (W) x
Bladderless cuff for infants	158	Display:	200mm / 7.87 in (H) Coloured and illuminated TFT
Bladderless cuff for children	154	Display.	display
Bladderless cuffs for adults with thin arms	160	Dimension:	without thermometer 203mm / 8 in (L) x 167mm / 6.58 in
Bladderless cuffs for adults	150		(W) x 232mm / 9.14 in (H)
Bladderless cuffs for large adults	152	Weight:	1500 g / 3.31 lb without thermometer PC and ABS
Wrap sensor for newborns	12663	Casing:	PC dilu ADS
Finger sensor for children	12662		
Finger sensor for adults	12661		<u> </u>
Extension cable for Sp02 length approx. 1,20 m (47.24 in)	12664		17-6
Rectal probe 2,7 m (106.3 in)	12668		0.20
Oral/axillary probe 2,7 m (106.3 in)	12669		99375 Rev. 0 2017-03
Probe covers for ear thermometer (pack with 100 pcs.)	12704		9375
Probe covers for predictive thermometer (pack of 500 pcs.)	12688	ASY	
Paper roll for infrared printer (pack with 20 pcs.)	12685		ORiester Strong
Infrared printer	12687	() R	Subject to atterations.



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