

## Models 512 & 513 Hand-Held Pulse Oximeters

Accurate and portable digital oximetry – in the palm of your hand.

### Advanced Technology Made Portable

At just 5.7 ounces, our Model 512 and 513 hand-held pulse oximeters combine convenient **portability** with advanced **digital technology**. They provide all the features you need in an easy-to-use, convenient hand-held size.



### All the Advantages of Larger Monitors

Our advanced digital signal technology can process pulsatile signals at an extremely high resolution of 20 bits (over 1 million parts to the signal) and sampling rate of 100 times per second. This technique helps achieve **superior performance** in difficult monitoring conditions where traditional hand-held monitors fail due to their low resolution technology.

### Powerful Technology

Additional advanced features include:

- automatic and adjustable SpO<sub>2</sub> and pulse rate limit alerts
- user-controlled pulse beep
- 24-hour trending for downloading of patient data to a computer or printer

### Versatile

Both models are flexible enough to be used in a broad range of environmental conditions as they are powered for up to 16 hours by 2 alkaline batteries, or continuously powered using the optional DC supply. They are also governed by an automatic power energy saver shut-off feature to preserve battery life. The 512 and 513 monitors are **flexible** enough to be used in a broad range of environmental conditions. An optional infrared link **enables communication** to a personal computer or printer for hard copy documentation.

### Cost-effective Reusable Sensors

Our innovative reusable sensors are designed with **performance, patient comfort, ease-of-use** and durability in mind. Our sophisticated finger sensor design technology helps to create:

- a contoured fit around the patient's finger providing greater comfort and minimizing the chance that the sensor will fall off
- a more durable product by incorporating a solid, rather than a spring-based, design
- an easy to re-use process; our sensors are simple to clean and can be re-applied repeatedly at a fraction of the cost of disposable sensors

### Our Unique Multi-Site Y-Sensor™ Offers the Following Advantages:

- can be used on all patients from neonates to adults
- is immersible for cleaning and disinfection purposes
- has nine applicator options for easy application to numerous monitoring sites

## Principle of Operation

- Red/Infrared Absorption

## SpO<sub>2</sub> (Oxygen Saturation)

- Range: 0-100%
- Accuracy: 70-100% ± 2% (1 standard deviation), 0-69% unspecified (Approximately 68% of the observations are within the accuracy claim.)
- Resolution: 1%
- Averaging: 8 seconds

## Pulse Rate

- Range: 30-250 bpm
- Accuracy: ± 2 bpm
- Resolution: 1 bpm
- Averaging: 8 seconds

## General

- Size: 4.25 x 2.25 x 1.0 inches (10.8 x 5.72 x 2.54 cm)
- Weight: 5.7 ounces (162 kg) (with batteries)
- Display:
  - Numerics: 7 segments LEDs
  - Pulse Bar: LED Pulse Bar Graph proportions to signal strength
- Electrical:
  - Battery: 2 AA alkaline
  - Battery Life: 16 hours
- Environmental:
  - Operating temperature: 50-104° F (10-40° C)
  - Operating humidity: 10-90% relative humidity
- Auto Shut Off: Monitor automatically shuts itself off after 3.5 minutes if no data is being received
- Low Battery Indicator: Illuminates when approximately 15 minutes of battery life remain
- Monitor Status Messages: Error codes displayed for various monitoring related conditions

## Advanced Features (Model 513 only)

- Alerts: Automatic and adjustable SpO<sub>2</sub> and pulse rate limits
- Pulse Beep: User selectable on/off
- Communications: Infrared link allows downloading of up to 24 hours of patient data to a computer or printer

We offer a wide selection of innovative and reusable sensors and applicators.



Butterfly Style Wraps  
20mm 8831-00  
25mm 8832-00



Tape Strips  
20mm 8828-00  
25mm 8829-00



Non-adhesive Foam Wrap  
Large 8836-00  
Small 8943-00



Adhesive Foam Wrap  
Large 6929-00  
Small 6968-00



Ear Clips  
6131-00



Finger Sensor  
9168-00  
9768-00



Y-Sensor  
9169-00  
9769-00

## ordering information

Description	Part No.	Description	Part No.
Model 512 Hand-Held Pulse Oximeter	9100-00	Seiko DPU-414 Printer; 120 VAC	9140-00
Model 513 Hand-Held Pulse Oximeter	9300-00	Transport Pouch	315134
Reusable Multi-site Y-Sensor™, 3 feet	9169-00	Protective Rubber Boot	9276-00
Reusable Multi-site Y-Sensor™, 6 feet	9769-00	Battery Eliminator (To be used with AC Adapter)	9278-00
Reusable Finger Sensor, 3 feet	9168-00	AC Adaptor, 120 VAC (To be used with Battery Eliminator)	9278-10
Reusable Finger Sensor, 6 feet	9768-00	AC Adaptor, 220/240 VAC (To be used with Battery Eliminator)	9421-10
Infrared Reader Module (Used to download data to PC)	9342-00		
NovaCARD™ (Windows Data Archive Software)	6065-00		

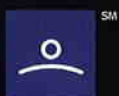
Models 512 and 513 Hand-Held Pulse Oximeters with Accessories



Customer Service: 1-800-345-6443 or 724-387-4000  
Respironics Europe: +33-(0)1-55-60-19-80  
Respironics Asia Pacific: +852-234-342-18

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