

## 2100 Pulse Oximeter

- Featuring Dolphin Medical's ONE™ (Oximetry Noise Elimination) technology to reduce alarms and improve performance during motion and low perfusion
- Uses patented digital sensors - all others still use analogue sensors
- Dolphin's patented line of ONE™ sensors both amplify and digitize the signal in the sensor, resulting in a stronger and higher quality signal being received by the oximeter

Oximetry performance is the most critical right when conditions are most difficult. That's when you can count on the Dolphin 2100 stand-alone oximeter.



# 2100 Pulse Oximeter

## Power

Voltage input	100-240 VAC, 50-60 Hz
Power consumption	33 VA
Fuses	2 x 2 A, 250 V, metric
Battery type	Sealed lead-acid
Battery capacity	5 hours
Battery charge time	4 hours

## Environmental

Operating temperature	-5°C to +45°C (23°F to 113°F)
Storage temperature	-20°C to +60°C (-4°F to 140°F)
Operating humidity	5% to 95%, non-condensing
Operating altitude	-304 m to 5,486 m (-1,000 ft to 18,000 ft) 503 mbar to 1059 mbar

## Range

SpO <sub>2</sub> (functional)	0% to 100%
Pulse rate (beats per minute)	30-240
Normal sensitivity (perfusion %)	0.06% to 20%
High sensitivity (perfusion %)	0.02% to 20%
Perfusion (percent)	(AC/DC) <sub>905nm</sub> X 100

## Resolution

SpO <sub>2</sub> (functional)	1%
Pulse rate (beats per minute)	1

## Dimensions

Size	10 x 27 x 25 cm (4 x 11 x 10 inches)
Weight	4 kg (9 lbs)

## Trending

24 hours of trending, 2 second resolution.  
Output to serial printer or other serial device.

## Modes

Averaging	Smart algorithm utilising 4 to 12 second data stream - depending on signal to noise ratio
Sensitivity	Normal and High
Patient types	Adult, Paediatric and Neonatal

## Alarms

Audible and visual alarms	
High and low saturation	20-100%
Pulse rate	30-240 bpm
Sensor condition, system failure and low battery	

## Display

SpO <sub>2</sub> , pulse rate, pleth waveform, perfusion indicator, pulse tone/ alarm volume, alarm status, trends and status messages	
Type	LCD
Pixels	240 x 64
Dot pitch	0.53 mm

## Standard interface for clinical use

Two LED's	660 nm and 905 nm
Electrically isolated RS-232 DB-9 female connector	
Streaming date, time, SpO <sub>2</sub> , pulse rate	
Analogue output	
Nurse call	

## Sensors

Reusable finger clip, model 210 (Adult and Paediatric >30 kg)  
Reusable multi-site 'Y', model 320 (Adult and Paediatric >30 kg),  
Includes Model 921 Ear Clip accessory  
Reusable multi-site 'Y', model 360 (Paediatric and Neonatal ≤ 30kg)  
Disposable, model 520 (Adult and Paediatric >30 kg)  
Disposable, model 560 (Paediatric and Neonatal ≤ 30 kg)

## Regulatory approvals

U.S. patents 05575284 and 05803137  
Approved for marketing by: CE, FDA, UL and CSA



0301

## Accuracy

### SpO<sub>2</sub> (functional)

Adult or Paediatric >30 kg	70-100%	±2%
	0-69%	Unspecified
Neonate	70-100%	±3.5%
	0-69%	Unspecified

No motion and normal perfusion

### Pulse rate (beats per minute)

Adult, Paediatric or Neonate	30-240 bpm	±3 bpm
No motion and normal perfusion		

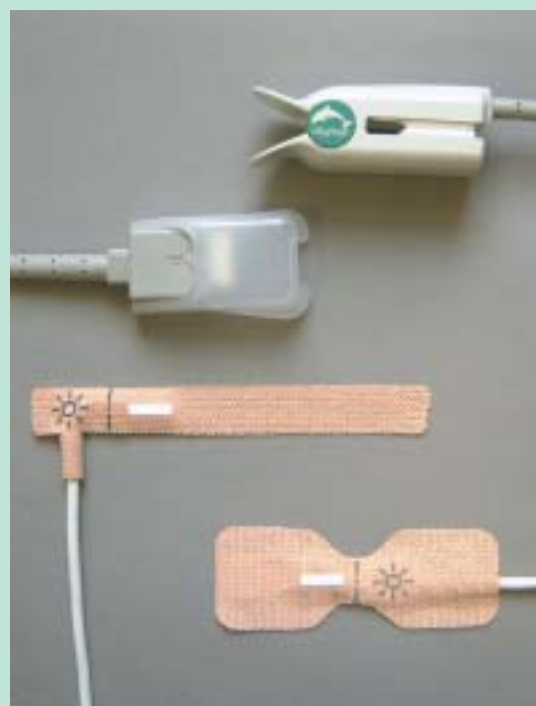
### SpO<sub>2</sub> (functional)

Adult or Paediatric >30 kg	70-100%	±3%
	0-69%	Unspecified

Motion or low perfusion <0.2%

### Pulse rate (beats per minute)

Adult or Paediatric >30 kg	30-235 bpm	±5 bpm
Motion or low perfusion <0.2%		



Specifications subject to change.

Distributed by:



# VIAMED

Viamed Limited · 15 Station Road · Cross Hills  
Keighley · West Yorkshire · BD20 7DT · United Kingdom  
Tel: +44 (0)1535 634542/636757 Fax: +44 (0)1535 635582  
Email: info@viamed.co.uk Website: www.viamed.co.uk



BS EN ISO 9001  
BS EN 46001  
BS EN ISO 13485