

# SoftOxy – SoftShell Fingertip Pulse Oximeter

The eChip oximetry module incorporating U.S. SpO<sub>2</sub> technology



small in size

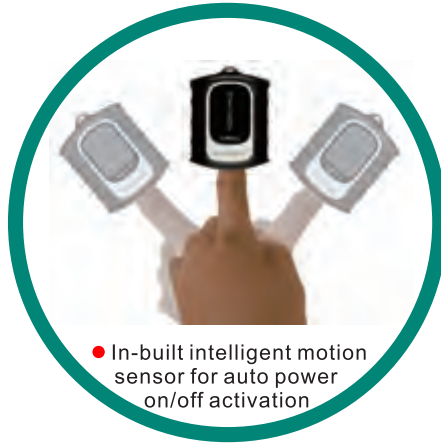
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# SoftOxy

SoftShell Fingertip Pulse Oximeter



## Ergonomical Technology Design



## >> Main Features



### SpO<sub>2</sub> and Pulse Indicator

Originated from U.S. SpO<sub>2</sub> technology



### Battery Icon

Bar display gives a clear indicator of battery life



SI 5.0 %

### Signal Index

Accurately reflects pulsatile blood flow and perfusion performance



### Pulse Bar

3-colour pulse bar gives clear indication of pulse strength and signal quality

## >> Product Display



## >> The device for all situations :

Lightweight and portable, the *SoftOxy* encapsulates the eChip, a powerful oximetry module which consistently delivers reliable and quality test results. Developed with the best software technology in SpO<sub>2</sub>, the *SoftOxy* produces highly-accurate test findings even in low perfusion patients, enabling the administrating staff to better assess and capture the most accurate result. Complete with a practical finishing touch and comprehensive functions, the *SoftOxy* is designed specially for the unpredictable environment in critical spot-checks.

- Inpatient & Outpatient Care
- Emergency & Intensive Care
- Nurse Stations & Patient Transport
- Sleep Labs
- Nursing Homes
- Rehabilitation Establishments
- Home-Based Care
- Periodic Checking of Athletes' Vital Signs
- Rescue Operations in Extreme Conditions



## >> Product Display



## » Technical Specifications

Measuring Parameters					
Parameter	Measuring Range			Unit	
	Min.	Typical	Max.		
SpO <sub>2</sub> Measuring Range	0	-	99	%	
SpO <sub>2</sub> Accuracy	±3% for 70% to 80% SaO <sub>2</sub> ±2% for 80% to 90% SaO <sub>2</sub> ±1% for 90% to 100% SaO <sub>2</sub>			%	
SpO <sub>2</sub> Resolution	-	1	-	%	
Pulse Rate Measuring Range	30	-	240	BPM	
Pulse Rate Accuracy	±1	-	±3	BPM	
Pulse Rate Resolution	-	1	-	BPM	
Perfusion Measuring Range	0.2	-	20	%	
Other parameters(IEC60601-1)					
Parameter	Environment	Measuring Range			Unit
		Min.	Typical	Max.	
Temperature	Operation Ambient	+5	-	+40	°C
	Storage Ambient	-20	-	+70	°C
Relative Humidity	Operation Ambient	15	-	80	%RH
	Storage Ambient	10	-	93	%RH
ESD	Air	-	8	-	KV
	Contact	-	6	-	KV
Dimensions		29*47*32 (L*W*H)			mm
Weight		14.6			g
Finger Thickness		0.8~2.5			cm

**Note:**

SpO<sub>2</sub> accuracy testing is conducted during induced hypoxia studies with the *SoftOxy* on 12 subjects including males and females with varying skin colours. All subjects were healthy, non-smoking and without anaemia. SpO<sub>2</sub> readings were compared to SaO<sub>2</sub> values of drawn blood samples which were taken at different blood saturation levels and measured by a Co-oximeter. Accuracy data is calculated using the root-mean-square (RMS value) based on a comprehensive >250 test samples drawn from all 12 subjects, per ISO 80601-2-61(2011).





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