

PULSE OXIMETER



EMCO oxi-sat 1020



- Manufactured using patented **PureSat**® Oximeter technology from **Nonin Medical Inc., USA**
- Provides fast & reliable SpO₂ and Pulse rate measurements on any patient, from neonates to adults
- Bright, easy-to-read LED displays indicate SpO₂ and Pulse rate measurements
- User Selectable High & Low Alarm limits for all parameters
- 8 segment bargraph indicates pulse strength
- Sensor Alarm indicates that the sensor has been disconnected either from patient or from oximeter
- Pulse Beep is sounded for every detected pulse, with the tone varying according to SpO₂ value
- **3 colour Perfusion LED** - Green (good perfusion), Orange (marginal perfusion) & Red (inadequate perfusion)
- **Built-in Rechargeable Battery with battery back up of more than 20 hours**
- Audible & Visual Low battery indication when 15 minutes remaining
- Ideally suited for Operation Theatres, ICU, Outpatient clinics, Emergency rooms, or during emergency air or land transport
- Wide range of sensors available with most of the sensors having 3 meter cable lengths

Emco Meditek, an ISO9001:2008 & ISO13485:2003 certified company, was formed in the year 1989 with the main objective of manufacturing and marketing of Electronic Medical Equipment. The equipment are designed and manufactured indigenously with the assistance of technology obtained from leading Medical Equipment manufacturing companies around the world especially USA, UK and Germany.

ISO 9001:2008



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EMCO MEDITEK® PVT. LTD.

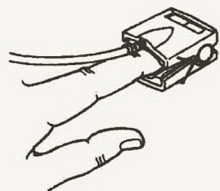
An ISO9001:2008(TUV Rheinland) & ISO13485:2003(Zenith/ASCB) Certified Company



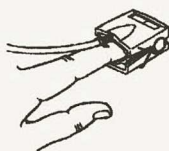


The EMCO oxi-sat 1020 is a compact & portable Table Top Pulse Oximeter. Incorporates all the features used in Oximetry. Indegenously designed and manufactured with technical assistance from world leaders in Oximetry, **Nonin Medical Inc., USA** using the Nonin **PureSat®** Signal Processing Technology

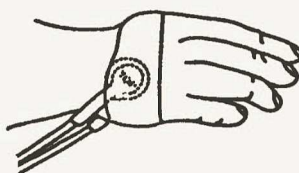
EMCO REUSABLE SENSORS



Adult Finger Clip



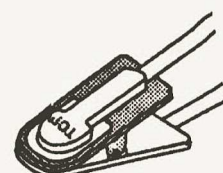
Paediatric Finger Clip



Universal Y Sensor on Infant Palm



Universal Y Sensor on Neonate Foot



Universal Y Sensor with Clip

Technical Specifications

Displays, Indicators & Keys

LED Display 0.5"	SpO ₂ , Pulse Rate
3 colour LED 5mm	Perfusion Status
Red LED Lightbar	Battery
Green LED Lightbar	Charging
Keys	Alarm Select, Alarm On/Off, Beep On/Off

SpO₂ Specifications

Range	0 - 100%		
Accuracy		Adult/Paediatrics	Neonates
No Motion	Reusable Sensors	±2 digits	±3 digits
	Disposable Sensors	±3 digits	±4 digits
Motion	Reusable Sensors	±3 digits	±3 digits
Low Perfusion	Reusable Sensors	±3 digits	±3 digits
	Disposable Sensors	±3 digits	±3 digits
Averaging	4, 8, 16 beat - automatic		
Sensors	Adult Finger, Paediatric Finger & Universal "Y" Sensor (All 3 meter cables)		

Pulse Rate Specifications

Range	18 to 300 bpm		
Accuracy		Adult/Paediatrics	Neonates
No Motion	Reusable Sensors	±3 digits	±3 digits
	Disposable Sensors	±3 digits	±3 digits
Motion	Reusable Sensors	±5 digits	±5 digits
Low Perfusion	Reusable Sensors	±3 digits	±3 digits
	Disposable Sensors	±3 digits	±3 digits

Note : ±1 A_{rms} represents approximately 68% of measurements

Averaging	8,16, 32 beat - automatic
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Pulse Beep

Pulse Beep	Tone changes with SpO ₂ value
Beep Volume	On/Off

Alarms

Sensor Disconnected, Limit Violations, Low Battery

Silence

2 minute & Permanent Silence

Alarm Ranges

	High	Low
SpO ₂	1 to 100% & OFF	0 to 100% (in 1% steps)
Pulse	5 to 300 bpm	0 to 295 bpm (in 5 bpm steps)

Power Requirements

Battery	Rechargeable Built-in Sealed Lead Acid Battery - 6V, 1.2Ah	
	Charging Time	6 hours
	Battery Backup	> 20 hours
AC Mains	230±15% Vac, 50 Hz	

Classification as per IEC 60601-1

Type of Protection : Class II
Degree of Protection : Type BF - Applied Part
Mode of Operation : Continuous

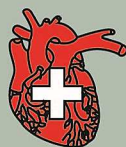
Degree of Ingress Protection : IPX1

Dimensions	Width	Height	Depth	Weight
	5.90"	2.65"	7.50"	1.35 kgs
	(150mm)	(67mm)	(190mm)	(2.97 lbs)

Environmental Specifications

Operating Temperature	0 to 45 deg. C
Storage Temperature	-20 to 70 deg.C
Relative Humidity	10 to 90% Non-condensing (operating)
	10 to 95% Non-condensing (storage)

Specifications subject to change without prior notice.



At the heart of healthcare

EMCO MEDITEK® PVT. LTD.

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