

PULSE OXIMETER



EMCO oxi-sat 610



- 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)
- Trends available for 11 patients - upto 24 hours for each patient
- Built-In Rechargeable Battery with battery back up of more than 10 hours
- Audible & Visual Low battery indication when 15 minutes remaining
- Ideally suited for Spot Checking, during emergency air or land transport, Operation Theatres, ICU, Outpatient clinics or Emergency rooms
- 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.

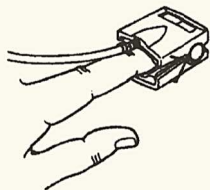
An ISO9001:2008(TUV Rheinland) & ISO13485:2003(Zenith/ASCB) Certified Company



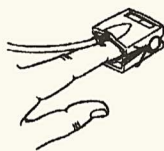


The EMCO oxi-sat 610 is a compact & portable Hand Held Pulse Oximeter with Alarms, Memory and Rechargeable Battery. Incorporates all the features used in Oximetry. Indegenously designed and manufactured with technical assistance from world leaders in Oximetry, **Nonin Medical Inc., USA** using the Nonin **PureSat®** Signal Processing Technology

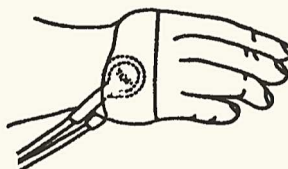
EMCO REUSABLE SENSORS



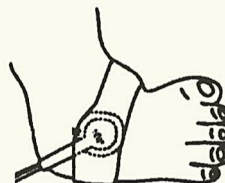
Adult Finger Clip



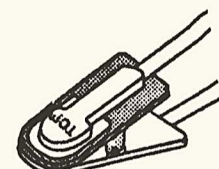
Paediatric Finger Clip



Universal Y Sensor on Infant Palm



Universal Y Sensor on Neonate Foot



Universal Y Sensor with Clip

Technical Specifications

Displays, Indicators & Keys

LED Display 0.4"	SpO ₂ , Pulse Rate
3 colour LED 5mm	Perfusion Status
Red LED 3mm	Charging
Keys	On/Off, Select/Trend, Alarm/Down, Beep/Up

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

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 99% & OFF	0 to 99% (in 1% steps)
Pulse	5 to 300 bpm	0 to 295 bpm (in 5 bpm steps)

Power Requirements

Battery	Rechargeable Battery, NiMH, 1600mAh
Charging Time	10hours
Battery Backup	> 10 hours
AC Mains Charger	Input : 230±15%Vac, 50 Hz
	Output : 9.0Vdc, 0.8AA

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
	3.15"	6.10"	1.26"	250 gms
	(80mm)	(155mm)	(32mm)	(0.55 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.



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