



Pulse Oximeter Features

- 20 feet Fiber Optic Sensor (non-magnetic) avoids potentially hazardous heating or image artefacts during MR Scans
- Suitable for use in 0.5 to 3 Tesla MRI environment
- Built-In Rechargeable Battery back-up of 7 hours (Pulse Oximeter) & 6 hours (with NIBP)
- Alarm (Visual & Audio) for alarm limit violations

NIBP Features

- Oscillometric method measuring Systolic, Diastolic, MAP & Pulse Rate
- Selectable Adult & Neonate functions with separate inflation and alarm settings
- Three modes MANUAL, STAT (5 quick measurements) & AUTO (measurements at user selectable time interval)
- Automatic pressure release for overpressure
- 20 ft Extension Tubing with Adult/Child/Infant Cuffs



 SunTech Medical[®]

Non-invasive Blood Pressure & Pulse Oximetry

Emco Meditek has been manufacturing MRI Compatible Pulse Oximeters since 2014, with an installation base all over India. Now comes the **MRI Compatible NIBP Oximeter 3700**, incorporating Nonin Medical (USA) SpO₂ & Suntech Medical (USA) NIBP Technology



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EMCO MEDITEK[®] PVT. LTD.

An ISO9001 & ISO13485 Certified Company





MRI Compatible NIBP Oximeter

The EMCO 3700 is a table top monitor - MRI Compatible - to measure Non Invasive Blood Pressure (NIBP) & Pulse Oximetry. The monitor is ingeniously designed and manufactured with technology from world leaders in NIBP technology, **Suntech Medical Inc., USA** & the **PureSAT** Signal Processing Oximetry Technology from **Nonin Medical Inc, USA**.

Other Features

- Provides fast reliable Blood Pressure, SpO₂ and Pulse rate measurements on any patient, from neonates to adults
- Bright, easy-to read LED displays indicate Systolic, Diastolic, MAP, SpO₂ and Pulse rate measurements
- User Selectable High & Low Alarm limits for all parameters
- User Selectable Alarm & Pulse Beep Volume
- Sealed Acid Rechargeable Battery with built-in charger. Charging Time is 8 hours.
- Battery back-up of a fully charged battery is 7 hours (Pulse Oximeter) & 6 hours (with NIBP)
- Audible & Visual Low battery indication when 15 minutes remaining



Technical Specifications

Displays, Indicators, Switches, Sockets & keys

Red, 0.4" display	Systolic, Diastolic, MAP, SpO ₂ , Pulse
Red, 0.3" display	Time Interval
10 seg. Bargraph	Pulse Strength
LED, 3 colour	Perfusion
LED, Red	Sensor Disconnect
LED, Green	Charging - Mains Operation
LED, Yellow	Battery Operation & Low battery indication
Keys	Auto/Stat, Start, Cancel, Alarm Volume, Alarm Select, Beep Volume, Up, Down, Alarm Silence, Adult/Neo, Print/Trend
Rocker Switch	Power On/off

Power Requirements

Battery	Rechargeable Built-in Sealed Lead Acid (6V, 3.2Ah) Charging Time 8 hours Battery Life 7 hours (Pulse Oximeter) & 6 hours (with NIBP)
AC Mains	100~250 Vac, 50/60 Hz

Dimensions

Width	Height	Depth	Weight
9.45"	3.35"	10.45"	3.0 kgs
240mm	85mm	265mm	6.6 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)

NIBP Parameters

Technique	Oscillometric method	
Accuracy	±3 mmHg for BP & ±2% or ±3 bpm for Pulse	
Range	Adult	Neonate
	Systolic 40 to 260 mmHg	40 to 130 mmHg
	Diastolic 20 to 200 mmHg	20 to 100 mmHg
	MAP 30 to 230 mmHg	30 to 120 mmHg
	Pulse 30 to 220 bpm	30 to 220 bpm
Operation Modes	MANUAL - Operator initiated measurements	
	STAT - Five consecutive readings with a gap of 15 sec.	
	AUTO - Measurements at user selectable time intervals of 1, 2, 3, 4, 5, 10, 15, 30, 60 & 90 minutes	
Inflation Pressures	Adult - 150, 170, 190 mmHg	Neonate - 90, 110, 130 mmHg
Safety Features	Max Cuff Inflation Time - 50 secs.	
	Max duration for BP reading - 120 (Adult), 75 (Neo) secs	
	Max Cuff Pressure - 300 (Adult), 150 (Neo) mmHg	

Oximeter Parameters

SpO ₂ Range	Range 0 - 100%	
Accuracy	Adult/Paediatrics	Neonates
	No Motion ±2 digits	±3 digits
	Motion ±3 digits	±3 digits
	Low Perfusion ±3 digits	±3 digits
Averaging	4, 8, 16 beat - automatic	
Pulse Rate Range	18 to 300 bpm (No motion) 40 to 240 bpm (Motion/Low Perfusion)	
Accuracy	Adult/Paediatrics	Neonates
	No Motion ±3 digits	±3 digits
	Motion ±5 digits	±5 digits
	Low Perfusion ±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	
Alarm & Beep Volume	User selectable in steps of 1 to 10	
SpO ₂ Sensor	Fiber Optic Sensor - 20 feet (Adult/Paediatric/Neonate)	

Common Parameters

Alarms	Sensor Disconnect, Limit Violation, Low Battery	
Alarm Silence	2 minutes & Permanent silence	
Alarm Ranges	High	Low
	Sys/Dia/MAP 5 to 300 mmHg	0 to 295 mmHg (in 5 mmHg steps)
	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)

Trending

SpO ₂	Past 24 hours - Minimum SpO ₂ & Pulse available for display
NIBP	Last 99 BP measurements data available for display

NIBP Cuffs

Neonate (3/4/5cms), Infant (8-13cms), Child (12-19cms) Small Adult (17-25cms), Adult (23-33cms), Large Adult (31-40cms) Extension Tubing - 20 ft
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Classification (IEC60601-1)

Type of Protection : Class I
Degree of Protection : Type BF - Applied Part
Mode of Operation : Continuous
Degree of Ingress Protection : IPX1 (drip proof)

EMC & Safety Compliance

IEC 60601-1; 60601-1-2; 60601-1-8, 80601-2-61

Specifications subject to change without prior notice.



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