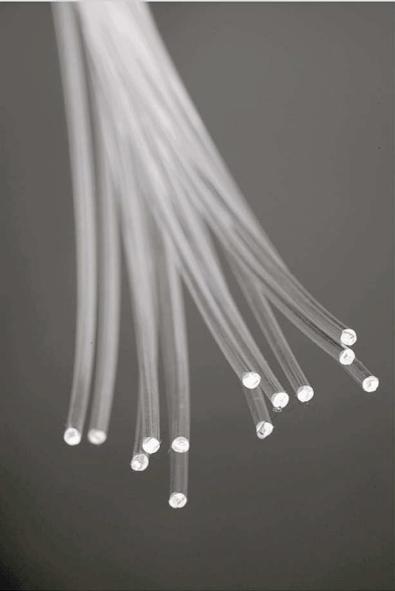


Emco Meditek has been manufacturing Pulse Oximeters since 1989, with an installation base of more than 8000 Pulse Oximeters.

Now comes the EMCO oxi-mri 3600 MRI Compatible Pulse Oximeter incorporating fiber optic SpO2 sensor, for MRI environment compatibility



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.

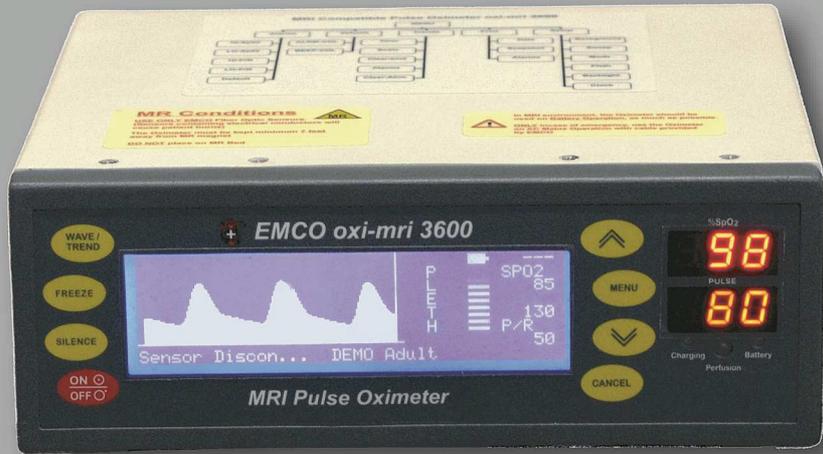
ISO 9001:2008



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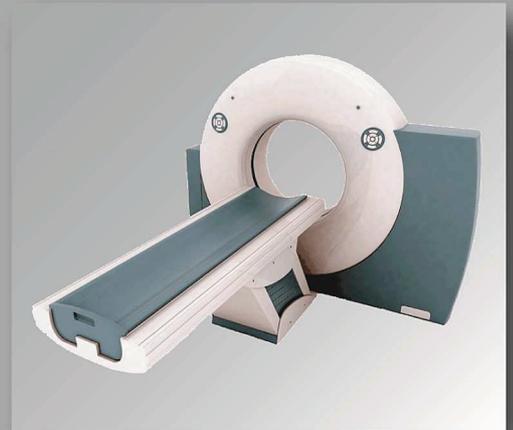
# EMCO oxi-mri 3600

## MRI COMPATIBLE PULSE OXIMETER



- 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
- Noise/Artefact free MR images
- Bright LED & LCD display which is easily visible from MRI Console Room

- Built-In Rechargeable Battery back-up of 6 hours (approx. 8 procedures)
- Alarm for sensor disconnection either from patient or from oximeter
- Provides fast & reliable SpO2 and Pulse rate measurements
- Suitable for Adult, Paediatric & Neonate
- Audible & Visual Low battery indication





## Technical Specifications (Magnet types - 0.5 to 3.0 Tesla)

### Displays, Indicators & Keys

|                  |   |
|------------------|---|
| LED Display 0.4" | SpO <sub>2</sub> , Pulse Rate   |
| LCD Display      | 240x64 pixels, Blue, STN, Transmissive, Negative, White LED Backlight, Viewing Area 132x33mm (5.2") |
| 3 colour LED 5mm | Display of Plethysmograph, Bargraph, Alarm Limits   |
| Yellow LED 3mm   | Perfusion Status  |
| Green LED        | Battery   |
| Keys             | Charging  |
|                  | On/Off, Menu, Up, Down, Cancel, Wave/Trend, Freeze, Silence   |

### SpO<sub>2</sub> Accuracy (A<sub>rms</sub>)<sup>a</sup> (at 70-100%)

|               |                              |
|---------------|------------------------------|
| No Motion     | ±2 digits                    |
| Motion        | ±3 digits                    |
| Low Perfusion | ±3 digits                    |
| Range         | 0 - 100%                     |
| Averaging     | 4, 8, 16 beat - automatic    |
| Sensor        | Fiber Optic Sensor - 20 feet |

### Pulse Rate Accuracy (A<sub>rms</sub>)<sup>a</sup>

|               |           |
|---------------|-----------|
| No Motion     | ±3 digits |
| Motion        | ±5 digits |
| Low Perfusion | ±3 digits |

Note : ±1 A<sub>rms</sub> represents approximately 68% of measurements

|           |                           |
|-----------|---------------------------|
| Range     | 18 to 300 bpm             |
| Averaging | 8,16, 32 beat - automatic |

### Plethysmograph

|              |                                      |
|--------------|--------------------------------------|
| Wave Speed   | 12.5, 25, 50 mm/sec (1.5, 3, 6 sec.) |
| Display type | Line or Fill                         |
| Gain         | Automatic Gain Control               |
| Wave Freeze  | Scrolling available for 15 – 60 sec  |

### Pulse Beep

|                     |  |
|---------------------|--|
| Pulse Beep          | Tone changes with SpO <sub>2</sub> value |
| Alarm & Beep Volume | User selectable in steps of 1 to 10      |

### Alarms

Sensor Disconnected, Limit Violations, Low Battery

### Silence

2 min Silence, Alarm Silence, Beep Silence, All Silence

### Alarm Ranges

|                  |                 |                               |
|------------------|-----------------|-------------------------------|
|                  | High            | Low                           |
| SpO <sub>2</sub> | 1 to 100% & OFF | 0 to 100% (in 1% steps)       |
| Pulse            | 5 to 300 bpm    | 0 to 295 bpm (in 5 bpm steps) |

### Memory Trends

(available on Display)  
Past Trends of SpO<sub>2</sub>, Pulse Rate & Signal Strength for 72 hours (3 days)

### Trends available on Display

15min, 1hr, 2hrs, 4hrs, 8hr, 24hrs  
(Default 4 hr Trend)  
Past Trends of 1000 Alarm Violations

### Power Requirements

|                |  |
|----------------|--|
| Battery        | Rechargeable Built-in Sealed Lead Acid |
|                | Battery - 6V, 1.2Ah                    |
| Charging Time  | 8 hours                                |
| Battery Backup | 6 hours                                |
| AC Mains       | 230±15%Vac, 50 Hz                      |

### Classification as per IEC 60601-1

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

### Degree of Ingress Protection : IPX1

| Dimensions | Width   | Height | Depth   | Weight    |
|------------|---------|--------|---------|-----------|
|            | 9.45"   | 3.35"  | 8.66"   | 2.4 kgs   |
|            | (240mm) | (85mm) | (220mm) | (5.3 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)   |

### MRI Fiber Optic Pulse Oximeter Sensor

### Measurement Wavelengths & Output Power \*\*

|  |
|--|
| Red 660 nanometers @ 0.8 mW maximum average      |
| Infrared 910 nanometers @ 1.2 mW maximum average |

\*\*This information is especially useful for clinicians performing photodynamic therapy.