

EMCO

Introducing

4040 NPO NIBP OXIMETER



Combined NIBP & Pulse Oximeter

Features

Pulse Oximeter

- 3 Color Perfusion LED displays the perfusion status - Green (Good Perfusion), Orange (Marginal Perfusion) and Red (Inadequate Perfusion)
- Pulse Bleep is sounded for every detected pulse, with the tone varying according to SpO₂ value
- Sensor Alarm indicates that the sensor has been disconnected either from the patient or from oximeter
- Ten segment LED bargraph indicates pulse strength
- Wide range of Sensors available with most of the sensors having 3 meter cable lengths
- Memory of past 24 hours available for display and print-out at intervals of 1 to 99 minutes
- User selectable Adult and Neonate alarm settings

NIBP

- Oscillometric method - measuring Systolic, Diastolic, MAP and Pulse Rate
- Separate Adult and Neonate functions with separate inflation and Alarm Settings
- User selectable initial inflation pressure
- Three modes -
 - MANUAL,
 - STAT (5 quick measurements) and
 - AUTO (measurements at user selectable time interval)
- Automatic pressure release for Overpressure
- Memory of last 99 measurements available for display and print-out
- Wide range of cuffs available from 2.5 cms to 16 cms width

EMCO 4040 NPO

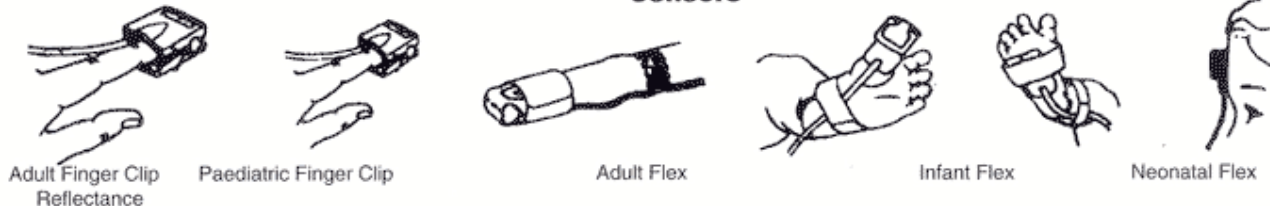
Versatile, Compact, Economical NIBP & Pulse Oximeter

The EMCO 4040NPO is an indigenously designed combination of NIBP & Pulse Oximeter which incorporates the combination of the latest technologies from UK & USA
The unit provides fast, reliable & accurate readings of Non-invasive Blood Pressure, Oxygen Saturation and Pulse rate.

Other Features

- ◆ User selectable High/Low alarm limits
- ◆ User selectable Alarm & Beep volumes
- ◆ Two minute & permanent alarm silence
- ◆ Built-in Rechargeable Battery with a battery back-up of 2½ hours. Charging time is 7 hours
- ◆ Low battery alarm & indication
- ◆ Quick resetting of default alarm limits
- ◆ Ideally suited for Operation Theatres, ICU, ICCU, NICU, PICU, OPD, Emergency rooms, or during emergency transport

Sensors



Also Available
Stand-alone EMCO 4040 NP NIBP (without Oximeter) with future Oximeter upgrade

Specifications

<p>Displays, Indicators, Switches, Sockets & keys</p> <p>Red, 0.4" display Systolic, Diastolic, MAP, SpO₂, 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/ Sstat, Start, Cancel, Alarm Volume, Alarm Select Beep Volume, Up, Down, Alarm Silence, Adult/neo Print/Trend Rocker Switch Power On/off</p> <p>Oximeter Parameters</p> <table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">SpO₂</td> <td style="text-align: center;">Pulse</td> </tr> <tr> <td>Range</td> <td style="text-align: center;">0 to 100%</td> <td style="text-align: center;">18 to 300 bpm</td> </tr> <tr> <td>Accuracy</td> <td style="text-align: center;">±2 digits at 70-100%</td> <td style="text-align: center;">±2% ±1 digit</td> </tr> <tr> <td>Averaging</td> <td style="text-align: center;">4, 8, 16 beat - automatic</td> <td style="text-align: center;">8, 16, 32 beat - automatic</td> </tr> </table> <p>Pulse Beep Tone changes with SpO₂ value Beep Volume User selectable in steps of 1 to 10 & Beep Silence Sensors Adult Finger, Paediatric Finger, Adult Flex, Infant Flex, Neonate Flex & Reflectance Sensors</p> <p>NIBP Parameters</p> <p>Technique Oscillometric method Accuracy ±2 mmHg for BP & ±2 bpm for Pulse</p> <table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">Adult</td> <td style="text-align: center;">Neonate</td> </tr> <tr> <td>Systolic</td> <td style="text-align: center;">40 to 280 mmHg</td> <td style="text-align: center;">20 to 130 mmHg</td> </tr> <tr> <td>Diastolic</td> <td style="text-align: center;">25 to 200 mmHg</td> <td style="text-align: center;">10 to 100 mmHg</td> </tr> <tr> <td>MAP</td> <td style="text-align: center;">30 to 230 mmHg</td> <td style="text-align: center;">15 to 120 mmHg</td> </tr> <tr> <td>Pulse</td> <td style="text-align: center;">40 to 200 bpm</td> <td style="text-align: center;">35 to 220 bpm</td> </tr> </table> <p>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</p> <p>Inflation Pressures Adult - 150, 170, 190 mmHg Neonate - 90, 110, 130 mmHg</p> <p>Cuffs available 2.5, 3, 4, 5, 6, 9, 12, 14, 16 cms width</p>		SpO ₂	Pulse	Range	0 to 100%	18 to 300 bpm	Accuracy	±2 digits at 70-100%	±2% ±1 digit	Averaging	4, 8, 16 beat - automatic	8, 16, 32 beat - automatic		Adult	Neonate	Systolic	40 to 280 mmHg	20 to 130 mmHg	Diastolic	25 to 200 mmHg	10 to 100 mmHg	MAP	30 to 230 mmHg	15 to 120 mmHg	Pulse	40 to 200 bpm	35 to 220 bpm	<p>Alarms</p> <p>Sensor Disconnect, Limit Violation, Low Battery</p> <p>Alarm Silence</p> <p>2 minutes & Permanent silence</p> <p>Alarm Ranges</p> <table border="0" style="width: 100%;"> <tr> <td></td> <td style="text-align: center;">High</td> <td style="text-align: center;">Low</td> <td></td> </tr> <tr> <td>Sys/Dia/MAP</td> <td style="text-align: center;">5 to 300 mmHg</td> <td style="text-align: center;">0 to 295 mmHg</td> <td style="text-align: center;">(in 5 mmHg steps)</td> </tr> <tr> <td>SpO₂</td> <td style="text-align: center;">1 to 100% & OFF</td> <td style="text-align: center;">0 to 100%</td> <td style="text-align: center;">(in 1% steps)</td> </tr> <tr> <td>Pulse</td> <td style="text-align: center;">5 to 300 bpm</td> <td style="text-align: center;">0 to 295 bpm</td> <td style="text-align: center;">(in 5 bpm steps)</td> </tr> </table> <p>Trending</p> <p>SpO₂ Past 24 hours - Minimum SpO₂ & Pulse available for display & print-out with selectable interval of 1 to 99 min.</p> <p>NIBP Last 99 BP measurements data available for display & print-out</p> <p>Printing</p> <p>SpO₂ Real Time (Min. SpO₂ & Pulse) at 1 min. intervals Trending of 24 hours at selectable interval of 1 to 99 min.</p> <p>NIBP Real Time (Systolic, Diastolic, MAP & Pulse) Trending of last 99 BP measurements</p> <p>Power Requirements</p> <p>Battery Rechargeable Built-in Sealed Lead Acid Battery Charging Time 7 hours Battery Life 2½ hours</p> <p>AC Mains 240 Vac +/- 15%, 50 Hz</p> <p>Dimensions</p> <table border="0" style="width: 100%;"> <tr> <td>Width</td> <td>Height</td> <td>Depth</td> <td>Weight</td> </tr> <tr> <td style="text-align: center;">9.25" (235mm)</td> <td style="text-align: center;">3.35" (85mm)</td> <td style="text-align: center;">6.50" (165mm)</td> <td style="text-align: center;">2.200 kgs (4.8 lbs)</td> </tr> </table> <p>Environmental Specifications</p> <p>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)</p>		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)	Width	Height	Depth	Weight	9.25" (235mm)	3.35" (85mm)	6.50" (165mm)	2.200 kgs (4.8 lbs)
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