

# EMCO

Introducing

## 4040 NP NIBP



## Non-invasive Blood Pressure Monitor

### Features

- 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)
- Body movement and Check Cuff Alarms
- 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
- Easily upgradable to include Pulse Oximetry

# EMCO 4040 NP

## Versatile, Compact, Economical NIBP

The EMCO 4040 NP is an ingeniously designed NIBP which incorporates the latest technologies from UK. The unit provides fast, reliable & accurate readings of Non-invasive Blood Pressure and Pulse rate.

### Other Features

- ◆ User selectable High/Low alarm limits
- ◆ User selectable Alarm Volume
- ◆ 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

### Easily Upgradable to Combined NIBP & Oximeter (4040 NPO)

### Oximeter Features (Optional)

- ◆ 3 colour Perfusion LED displays the perfusion status - Green (good perfusion), Orange (marginal perfusion) & Red (inadequate perfusion)
- ◆ Pulse Beep is sounded for every detected pulse, with the tone varying according to SpO<sub>2</sub> value
- ◆ Sensor Alarm indicates that the sensor has been disconnected either from 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 & print-out at intervals of 1 to 99 min.
- ◆ User selectable Adult & Neonate alarm settings

### Oximeter Sensors



Adult Finger Clip Reflectance



Paediatric Finger Clip



Adult Flex



Infant Flex



Neonatal Flex

### Specifications

#### Displays, Indicators, Switches, Sockets & keys

Red, 0.4" display	Systolic, Diastolic, MAP, Pulse
Red, 0.3" display	Time Interval
LED, Red	Check Cuff, Body Movement
LED, Green	Charging - Mains Operation
LED, Yellow	Battery Operation & Low battery indication
Keys	Auto/Stat, Start, Cancel, Alarm Volume, Alarm Select, Up, Down, Alarm Silence, Adult/neo, Print/Trend
Rocker Switch	Power On/off

#### NIBP Parameters

Technique	Oscillometric method
Accuracy	±2 mmHg for BP & ±2 bpm for Pulse

Range	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 mmHg	35 to 220 mmHg

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

Cuffs available	2.5, 3, 4, 5, 6, 9, 12, 14, 16 cms width
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#### Alarms

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)
Pulse	5 to 300 bpm	0 to 295 bpm	(in 5 bpm steps)

#### Trending

Last 99 BP measurements data available for display & print-out

#### Printing

Real Time (Systolic, Diastolic, MAP & Pulse)  
Trending of last 99 BP measurements

#### Power Requirements

Battery	Rechargeable Built-in Sealed Lead Acid Battery
Charging Time	7 hours
Battery Life	2½ hours

AC Mains	240 Vac +/- 15%, 50 Hz
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#### Dimensions

Width	Height	Depth	Weight
9.25" (235mm)	3.35" (85mm)	6.50" (165mm)	2.200 kgs (4.8 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)

## EMCO Meditek Pvt. Ltd.

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