# Phoebus P515
PATIENT MONITORING SYSTEM


## VITAL SIGNS MONITOR

### Features-

- ECG, NIBP, SPO2, RESP and 2-TEMP parameters
- 12.1"high resolution TFT color display
- Adult, Pediatric & Neonatal monitoring
- Arrhythmia Detection and Alarm facility
- 20 days Graphical and Tabular Trends storage
- Drug Dose Calculation and Titration table
- Night mode facility
- 5 days wave review
- Standard, Large font, Trends, OxyCRG & Full lead ECG display
- Color coded Audio-visual and Voice alarms
- Pace detection
- Real time ST segment analysis
- Electrocautery and Defibrillator Protected
- Networking Capability
- Wireless CMS connectivity through WiFi*
- Dual channel IBP Monitoring *
- Sidestream & Mainstream capnography *
- Android compatible CMS *

CE

** Optional*

# PHOEBUS P515 - Technical Specifications

## ECG

| | |
|---|---|
| ECG Leads | 3/5 leads configuration |
| Gain | 0.25, 0.5, 1 & 2 mm/mV |
| HR | 15-300BPM (Adult), 15-350BPM (Neonatal) |
| Resolution | 1BPM |
| Accuracy | 1% |
| ST Range | ±2.0mV |
| Pace Detection | Yes |
| Sweep Speed | 12.5mm/s, 25mm/s, 50mm/s |
| Bandwidth | 0.05 ~ 130 Hz; 0.5 ~ 40 Hz; 1 ~ 20 Hz |

## SPO2

| | |
|---|---|
| Saturation range | 0 – 100% |
| Adult | 70 – 100% ± 2 digits |
| Neonate | 70 – 100% ± 3 digits |
| Low Perfusion | 70 – 100% ± 3 digits |
| | 0 – 69% unspecified |
| Pulse Rate range | 20 – 250 bpm |
| Adult | 20 – 250 bpm ± 3 digits |
| Neonate | 20 – 250 bpm ± 3 digits |

## Respiration

| | |
|---|---|
| Method | Thoracic Impedance |
| Range | 0-150 BrPM |
| Resolution | 1 BrPM |
| Accuracy | 2% |
| Apnea alarm | 10-40sec. |

## Temperature

| | |
|---|---|
| Channel | 2 |
| Range | 0-50°C |
| Resolution | 0.1°C |
| Accuracy | 2% |

## NIBP

| | | |
|---|---|---|
| Method | | Digital automatic, Oscillometric |
| Work Mode | | Manual, Automatic & Continuous |
| Unit | | mmHg, kPa |
| Measure range - | | |
| Adult | SYS | 40-280mmHg |
| | DIA | 10-225mmHg |
| | MAP | 20-240mmHg |
| Pediatric | SYS | 40-220mmHg |
| | DIA | 10-160mmHg |
| | MAP | 20-170mmHg |
| Neonatal | SYS | 40-135mmHg |
| | DIA | 10-100mmHg |
| | MAP | 20-110mmHg |
| Resolution | | 1mmHg |
| Accuracy | | 5mmHg |
| Protection | | Over pressure |

## Invasive Blood Pressure (optional)

| | | |
|---|---|---|
| Channel | 1 or 2 | |
| Transducer Sites | Arterial, Femoral, Pulmonary, Central Venous, Right Atrial, Left Atrial, Intracranial etc. | |
| Excitation Voltage | 5V DC ± 0.1% | |
| Accuracy | ±1 mmHg | |
| Alarms | User Selectable upper & lower limits | |

## Sidestream $CO_2$ Sensor (optional)

| | | |
|---|---|---|
| Sample Flow Rate | 50 mL/minute ± 10 mL/minute | |
| Principle | NDIR single beam optics, dual wavelength | |
| $CO_2$ Range | 0-150 mmHg, 0-20 kPa | |
| $CO_2$ Resolution | 0.1 mmHg | 0-69 mmHg |
| | 0.25 mmHg | 70-150 mmHg |
| $CO_2$ Accuracy | 0-40 mmHg | ±2 mmHg |
| | 41-70 mmHg | ±5% of reading |
| | 71-100 mmHg | ±8% of reading |
| | 101-150 mmHg | ±10% of reading |
| | Above 80 BPM | ± 12% of reading |
| Respiration Range | 0-150 Breaths Per Minute | |
| Accuracy | ±1 breath | |

## Mainstream $CO_2$ Sensor (optional)

| | | |
|---|---|---|
| Principle | NDIR single beam optics, dual wavelength | |
| Rise Time | less then 60 ms | |
| $CO_2$ Range | 0-150 mmHg, 0-20 kPa | |
| $CO_2$ Resolution | 0.1 mmHg | 0-69 mmHg |
| | 0.25 mmHg | 70-150 mmHg |
| $CO_2$ Accuracy | 0-40 mmHg | ±2 mmHg |
| | 41-70 mmHg | ±5% of reading |
| | 71-100 mmHg | ±8% of reading |
| | 101-150 mmHg | ±10% of reading |
| Respiration Range | 0-150 Breaths Per Minute | |
| Accuracy | ±1 breath | |

## WiFi Connectivity (optional)

| | |
|---|---|
| Wireless Standards | IEEE 802.11n, IEEE 802.11g, IEEE 802.11b |
| Antenna Type | On-Board |
| Frequency | 2.4-2.4835GHz |

## General

| | |
|---|---|
| Dimension | 330(W) X 305(H) X 164(D) mm |
| Weight | 5.4 Kg approx. (with battery) |
| Battery Backup | 4 hrs. |
| Battery | ⎓ 12V, 3.2Ah lead acid rechargeable |
| Power input | ~ 165-265V, 50/60Hz, ±10% |
| Networking | Ethernet |

## Standard Accessories

| Component | Qty. |
|---|---|
| ECG cable 5 lead | 01 no |
| SPO2 Probe (Adult) | 01 no |
| NIBP Cuff (Adult) | 01 no |
| Temperature Probe (Skin) | 01 no |
| Temperature Probe (Rectal) | 01 no (optional) |
| ECG electrodes (Disposable) | 10 nos |

## Options

IBP, Capnography, Thermal Printer, WiFi, CMS & Wall Mounting


ECG Cable


SPO2 Sensor


NIBP Hose


NIBP Cuff


Skin Temp. Probe


Rectal Temp. Probe *

*Optional

Since R&D is a continuous process, features & specifications are subject to change without notice.


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