



New Monitoring Solution for Oral Surgery

- Fast, accurate, continuous monitoring of key physiological parameters
- Masimo ISA CO2 Analyzer with Nomoline Adapter (low disposables cost)
- Connectivity with major oral surgery EMR systems
- Large, bright display with wide viewing angle
- Simple menus and layout for easy operation
- Future safe — software upgradable via USB stick
- Long life Lithium Ion Battery
- Three year warranty

Made in the USA



Nightingale™ PPM3 Monitor

Technical Data

ECG

Input: 3 and 5 wires
Displayable Leads: I, II, III, aVR, aVL, aVF, V
HR Range: 15 to 300 bpm
HR Accuracy: Greater of $\pm 1\%$ or ± 2 bpm
Pacer Detection: Yes
Respiration Rate: 2-120 bpm (using Lead II)

NIBP

Parameters: Systolic, Diastolic, Mean
Range: S: 30 to 260; D: 10 to 235; M: 20 to 255
NIBP Accuracy: Meets AAMI SP10 clinical accuracy requirements
Auto Modes: 3, 5, 10, 15, 30, 60 min.
Overpressure Cutoff: 290 ± 3 mmHg (normal), 300 ± 30 mmHg (back-up)
PR Range: 30 to 240 bpm
PR Accuracy: Greater of $\pm 5\%$ or ± 2 bpm

Pulse Oximetry

Method: Dual Wave Absorption Spectrophotometry
SpO₂ Range: 30 to 100%
SpO₂ Accuracy: $\pm 2\%$ (from 70 to 100%)
PR Range & Accuracy: 30 to 240 bpm, ± 3 bpm

CO₂

Method: Masimo - Phasein® (Option)
Parameters: Side-stream Capnography (Non-dispersive IR)
CO₂ Range: 0 to 150 mmHg
CO₂ Accuracy: 0 to 38 mmHg: ± 2 mmHg; > 38 mmHg: $\pm 5\%$
RR Range & Accuracy: 0 to 150 rpm, ± 1 rpm (0 to 70 rpm)

Temperature

Probe Type: YSI 400-series thermistor
Range: 41.0 to 122.0 °F (5.0 to 50.0 °C)
Accuracy: ± 0.1 °F or ± 0.1 °C (plus probe tolerance)

General Specifications

Display: 8.4" color "All-angle-view" display
Waveforms: 5
Size (H x W x D): 7.2" x 11.3" x 3.3"
Weight: 4.5 lbs
Stored Trends: 1 min / 24Hours

Electrical

Power: 100 to 240 VAC, 50/60 Hz, 1.2 A max
Battery: > 5 hour, Lithium Ion
Protection: Class I, Type CF (defibrillation proof), IPX1

Connectivity

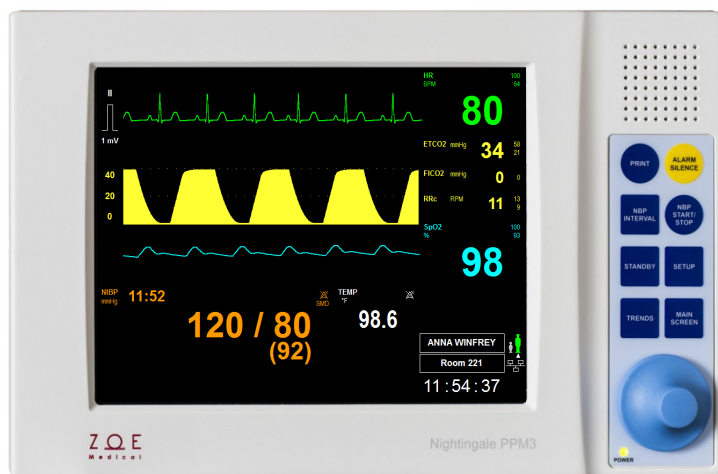
Real time connection to major oral surgery EMR systems
Zoe Medical MPC central station
Ethernet
USB for software upgrade
2 RS232 ports
Dual channel recorder

Environmental

Operating Temp.: 32 to 104 °F (0 to 40 °C)
Operating Humidity: 15 to 90%, Non-Condensing
Storage Temp.: - 4 to 140 °F (-20 to 60 °C)
Storage Humidity: 15 to 95%, Non-Condensing

Standards Conformance

IEC 60601-1 (Safety)
IEC 60601-1-2 (EMC)
IEC 60601-1-8 (Alarms)
IEC 60601-2-27 (ECG)
ISO 80601-2-30 (NIBP)
EC 60601-2-34 (IBP)
ISO 80601-2-55 (CO₂)
ISO 80601-2-56 (Temp)
ISO 80601-2-61 (SpO₂)
IEC 62366 (Usability)



Large CO₂ Waveform



Masimo ISA CO₂ Analyzer and Nomoline Adapter