

User-friendly touch-screen patient monitor

Measures ECG, SpO₂, NIBP, heart rate, temperature and respiration
— Now with Masimo SET® Pulse Oximetry!

Also available with Anesthetic Agent Monitoring, Automatic Agent I.D., Dual IBP, and EtCO₂

Upgrade for
O.R. use with
optional
Anesthesia
Gas Module



- **NEW** - Masimo SET® Pulse Oximetry!
- Optional Plug-In Anesthesia Gas Module expands measurement capabilities — Anesthesia Gas Module
- Bigger time stamp in upper right corner
- Standby button
- Revised SpO₂ pitch tone is still audible when SpO₂ rate decreases.
- Volume and Sounds are adjustable and now can be turned off completely
- Option to print Numerical Data Only
- Color of the waveforms can be changed
- EtCO₂ Option allows compliance with ASA
- Available with optional dual invasive blood pressures, EtCO₂, a battery and a built-in recorder.
- 12.1" color TFT display with a touch-screen interface
- Multi-lead ECG monitoring
- Built-in battery (optional)
- NIBP list display
- OxyCRG dynamic view display
- Built-in thermal recorder
- Networkable with a central monitoring system via a wireless or wired network
- S-T Segment and 72 hours trend data analysis
- Compact design convenient for mobile monitoring
- Drug dose calculations
- Multi-lingual settings

Intuitive touch-screen displays large fonts and up to eight crisp waveforms

Technical Specifications

Physical Dimensions & Weight

Main Unit

Dim. 11"H x 12.6"W x 6.2"D
Weight Approx. 11 lbs (5kg)

Application

Neonatal, pediatric and adult patients

Operation Environment

Power

Source External AC power or internal battery
AC Power 100-240VAC, 50/60Hz, <150VA

Battery Rechargeable Lead-Acid;

- Operating time under normal conditions 1 hour
- Operating time after 1st low battery alarm 10 min.

Temperature

Working 5° – 40° C
Storage -20° – 65° C

Relative Humidity

Working 30 – 75%
Storage ≤80%

Altitude

Operating Altitude Up to 5,000 meters
Hyperbaric Pressure Up to 405.3 kPa

Performance Specifications

Display 12.1" color TFT, Touch Screen
Resolution 800 x 600 pixels
Trace 4, 6, 8 or 9 waveforms

ECG (I, II, III, aVR, aVL, aVF, V1-V6), PLETH, RESP, IBP×2, ETCO₂
Indicator Alarm indicator; Power indicator
QRS beep and alarm sound

Trend Time 72 hours
Recorder Built-in, thermal array, 2 channels

- Record Width 48 mm
 - Recorder Paper 50 mm
 - Record Speed 25 mm/s, 50 mm/s
- OxyCRG Combines HR, SpO₂, and resp. trends into a single graph

ECG

Input 5-lead ECG cable and standard AAMI line for connection

Lead Choice I, II, III, aVR, aVF, aVL, V
Gain Choice x0.125, x0.25, x0.5, x1.0, x2.0

- Filter
- Diagnostic mode 0.05 – 100Hz
 - Monitoring mode 0.05 – 75Hz
 - Surgical mode 1 – 20Hz

Performance Specifications

ECG continued

ECG Waveforms 7 channels
Penetration Voltage 4000VAC 50/60Hz
Sweep Speed 12.5, 25 and 50 mm/s
HR Display Range 15 – 300bpm
Accuracy ±1% or ±1bpm, whichever is greater

- S-7 Segment Detection 7 channels
 - Measurement Range -2.0mv – +2.0mv
 - Arrhythmia Analysis 13 types
- Alarm Limit Range Setting
- Upper limit 80 – 400bpm
 - Lower limit 20 – 150bpm

RESP

Measure Method RA-LL impedance
Range 0 – 120 rpm
Accuracy ±3 rpm

Alarm Upper-lower Limit Setting:

- Upper limit 6 – 120 rpm,
 - Lower limit 3 – 120 rpm
- Sweep Speed 12.5 and 25 mm/s

NIBP

Measuring Technology Automatic oscillating measurement
Cuff Inflating <30s (0 – 300mmHg, standard adult cuff)

Measuring Period AVE<40s
Mode Manual, Auto, STAT

Measuring Interval in AUTO Mode 2 min – 4 hrs
Pulse Rate Range 30 – 250 (bpm)

Measuring Range

- Adult/Pediatric Mode
- SYS 40 – 250 (mmHg)
- DIA 15 – 200 (mmHg)

- Neonatal Mode
- SYS 40 – 135 (mmHg)
- DIA 15 – 100 (mmHg)

Resolution 1mmHg

Accuracy: Pressure

- Maximum Mean error ±5mmHg
- Max. Standard deviation 8mmHg

Overpressure Protection

- Adult Mode 280(mmHg)
- Neonatal Mode 150 (mmHg)

Alarm Limit Setting

- SYS 50 – 240 mmHg
- DIA 15 – 180 mmHg

TEMP

Range 0 – 50°C (32 – 122°F)

Accuracy Without sensor
Display Resolution 0.1° C

Alarm Upper-lower Limit Setting:

- Upper limit 0-50° C
- Lower limit 0-50° C

Channel 2 channels, provide T1, T2, ΔT

Performance Specifications

SPO₂

ASpO₂ Anti-motion SpO₂
SpO₂% Range 0 – 100%

SpO₂ Accuracy

- ±2% 70 – 100%, non-motion
- ±3% 70 – 100%, motion

Pulse Rate Range 30 – 250 bpm
Pulse Rate Accuracy

- ±2 bpm (non-motion)
 - ±3 bpm (motion)
- Alarm Upper-lower Limit Setting:

- Upper limit 70 – 100%
- Lower limit 70 – 100%

SpO₂ Probe

- Red Light LED Wavelength 660nm±5nm
- Infrared Light LED Wavelength 905nm±10nm

IBP (Option)

Measurement Range -50 – 300mmHg
Channel 2 channels

Pressure Transducer Sensitivity, 5μV/V/mmHg
Impedance Range 300 – 3000Ω

Transducer Sites ART, PA, CVP, RAP, LAP, ICP
Resolution 1mmHg

Accuracy ±1mmHg or ±2%, whichever is greater
Alarm range -50 – 300mmHg

EtCO₂ (Option)

Mode of Sampling Sidestream
Principle of Operation

Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts

CO₂ Measurement Range 0 to 150 mmHg (0 to 19.7%, 0 to 20 kPa)

CO₂ Calculation Method BTPS (Body Temperature Pressure Saturated)

CO₂ Resolution 0.1mmHg (0 – 69mmHg); 0.25mmHg (70 – 150mmHg)

CO₂ 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 breath per minute ± 12% of reading

Sampling Rate 100ml/min
Respiration Rate 2 – 150 bpm

Respiration Rate Accuracy ±1 breath
Response Time <3 seconds (includes transport time and rise time)

Inspired CO₂ Measurement Range 3 – 50 mmHg

Also available: Anesthesia Gas and Automatic Agent I.D. Consult your sales representative for specifications.

Specifications subject to change without notice.