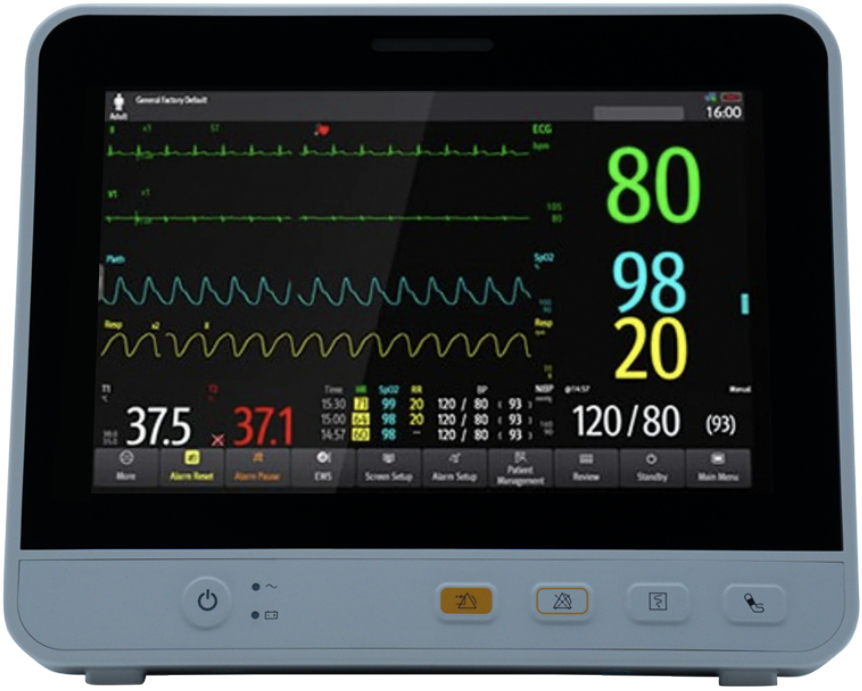
GUARDIANPLUS

SEDATION MONITOR



MONITOR SAFETY SPECIFICATIONS

The monitor is classified, according to IEC 60601-1:

Degree of protection against electrical shock	Type CF defibrillation proof for ECG, Resp, SpO2, NIBP, Temp Type BF defibrillation proof for CO2
Type of protection against electrical shock	Class I
Degree of protection against harmful ingress of water	IPX1
Degree of safety of application in the presence of flammable anesthetic mixture with air or with oxygen or nitrous oxide	The equipment is not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide
Mode of operation	Continuous

PHYSICAL SPECIFICATIONS

Item	Maximum Weight	W x H x D (mm)	Comments
Main unit	4.0 kg (standard configuration and recorder, excluding battery and accessories)	271 x 226 x 173	3.2 kg (standard configuration, excluding battery, accessories and recorder)

ENVIRONMENTAL SPECIFICATIONS

WARNING

- The monitor may not meet the performance specifications if stored or used outside the specified temperature and humidity ranges. If the performance of the equipment is degraded due to aging or environmental conditions, contact your service personnel.
- When the monitor and related products have differing environmental specifications, the effective range for the combined products is that range which is common to the specifications for all products.

NOTE

- The environmental specification of unspecified parameter modules are the same as those of the main unit.

Main Unit			
Item	**Temperature (C°)**	**Relative Humidity (noncondensing) (%)**	**Barometric**
Operating Condition	0 to 40	15 to 95	427.5 to 805.5 mmHg (57 to 107.4 kPa)
Storage Condition	-20 to 60	10 to 95	120 to 805.5 mmHg (16 to 107.4 kPa)

Microstream CO2 Module			
Item	**Temperature (C°)**	**Relative Humidity (noncondensing) (%)**	**Barometric**
Operating Condition	0 to 40	15 to 95	430 to 790 mmHg (57.3 to 105.3 kPa)
Storage Condition	-20 to 60	10 to 95	430 to 790 mmHg (57.3 to 105.3 kPa)
Sidestream CO2 Module			
Item	**Temperature (C°)**	**Relative Humidity (noncondensing) (%)**	**Barometric**
Operating Condition	5 to 40	15 to 95	430 to 790 mmHg (57.3 to 105.3 kPa)
Storage Condition	-20 to 60	10 to 95	430 to 790 mmHg (57.3 to 105.3 kPa)

POWER SUPPLY SPECIFICATIONS

External Power Supply Specifications:

AC Power	
Line Voltage	100 to 240 VAC (±10%)
Input Current	2.0 to 0.9 A
Frequency	50/60 Hz (± 3 Hz)

Battery Specifications:

AC Power	
Battery Type	Rechargeable lithium-Ion battery (non-smart battery)
Battery Voltage	10.95V
Battery Capacity	4500 mAh
Maximum Number of Batteries Configured	Only one battery can be connected

Run Time	≥ 4 hours When the monitor is powered by a new fully-charged battery at 25 °C ±5 °C with 5-lead ECG and SpO2 cable connected, auto NIBP measurements at an interval of 15 minutes, and screen brightness set to 1. Shutdown delay: at least 15 minutes after the low battery alarm first occurs.
Charge Time	No more than 5 hours to 90% when the monitor is off No more than 10 hours to 90% when the monitor is on

DISPLAY SPECIFICATIONS

Screen Type:
Capacitive, multi-point color touchscreen

Screen Size (diagonal):
10.1 inches

Resolution:
1280 x 800 pixels

LEDs

Alarm Lamp:
1 or 2 (three color-coded: red, yellow, and cyan)

Power-on LED:
1 (green)

AC power LED:
1 (green)

Battery LED:
1 (two color-coded: yellow and green)

RECORDER SPECIFICATIONS

Method:
Thermal dot array

Horizontal Resolution:
16 dots/mm (25 mm/s paper speed)

Vertical Resolution:
8 dots/mm

Paper Width:
50 mm±1mm

Paper Length:
20 m

Paper Speed:
25 mm/s, 50 mm/s

Accuracy:
±5%

Number of Waveform Channels:
A maximum of 3

AUDIO INDICATOR

Speaker	Give alarm tones (45 to 85 dB), reminder tones, key tones, QRS tones; support PITCH TONE and multi-level tone modulation; alarm tones comply with IEC 60601-1-8.
Audio signal	**Alarm tone:** ISO mode with frequency of 600 Hz **QRS tone:** Short beep with frequency of 650 Hz **Key tone:** Short beep with frequency of 1000 Hz

MONITOR INTERFACE SPECIFICATIONS

AC Power Input	1
Network Connector	1, standard RJ45 connectors, 100 Base-TX, IEEE 802.3

USB Connector	2, USB 2.0
Multifunctional Connector	1
Video Output Connector	1, 15-pin D-sub
Equipotential Grounding Terminalr	1

SIGNAL OUTPUTS SPECIFICATIONS

Auxiliary Output	
Standard	Meets the requirements of IEC 60601-1 for short-circuit protection and leakage current
ECG Analog Output	
Bandwidth (-3dB; reference frequency: 10Hz)	Diagnostic mode: 0.05 to 150 Hz Monitor mode: 0.5 to 40 Hz Surgical mode: 1 to 20 Hz
Maximum QRS Delay	25 ms (in diagnostic mode, and non-paced)
Gain (reference frequency 10Hz)	1V/mV (±5%)
Pace Enhancement	Signal amplitude: Voh≥2.5V Pulse width: 10ms±5% Signal rising and falling time: ≤100μs
Nurse Call Signal	
Amplitude	High level: 3.5 to 5 V, ±5%, providing a minimum of 10 mA output current; Low level: < 0.5 V, receiving a minimum of 5 mA input current.
Rising and Falling Time	≤1 ms
Defib Sync Pulse	
Output Impedance	≤100 Ω
Maximum Time Delay	35 ms (R-wave peak to leading edge of pulse)

Amplitude	High level: 3.5 to 5 V, ±5%, providing a minimum of 10 mA output current; Low level: < 0.5 V, receiving a minimum of 5 mA input current.
Pulse Width	100 ms ±10%
Maximum Rising and Falling Time	1 ms
Alarm Output	
Alarm delay time from the monitor to remote equipment	The alarm delay time from the monitor to remote equipment is ≤2 seconds, measured at the monitor signal output connector.
Alarm signal sound pressure level range	45 db(A) to 85 db(A) within a range of one meter

DATA STORAGE

Trends	Standard-capacity memory card: up to 120 hours of trend data with the resolution no less than 1 minute, or up to 1200 hours of trend data with the resolution no less than 10 minutes. High-capacity memory card: up to 240 hours of trend data with the resolution no less than 1 minute, or up to 2400 hours of trend data with the resolution no less than 10 minutes.
Events	Standard-capacity memory card: 1000 events, including parameter alarms, arrhythmia events, technical alarms, and so on. High-capacity memory card: 2000 events, including parameter alarms, arrhythmia events, technical alarms, and so on.
NIBP Measurements	Standard-capacity memory card: 1000 sets. High-capacity memory card: 3000 sets.
Full-disclosure Waveforms	Standard-capacity memory card: up to 48 hours for one waveform. The specific storage time depends on the waveforms stored and the number of stored waveforms. High-capacity memory card: up to 48 hours for all parameter waveforms.
OxyCRG View	A maximum of 48 hours of OxyCRG events.

ECG SPECIFICATIONS

ECG

Standards:
Meet standards of IEC 60601-2-27: 2011 & IEC 60601-2-25: 2011
Lead Set:
- 3-lead: I, II, III
- 5-lead: I, II, III, aVR, aVL, aVF, V

ECG Standard: AHA, IEC
Display Sensitivity:
- 1.25 mm/mV (×0.125), 2.5 mm/mV (×0.25),
- 5 mm/mV (×0.5), 10 mm/mV (×1),
- 20 mm/mV (×2), 40 mm/mV (×4), Auto, less than 5% error

Sweep Speed:
- 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s, less than 5% error

Bandwidth (-3dB):
- Diagnostic mode: 0.05 to 150 Hz
- Monitor mode: 0.5 to 40 Hz
- Surgical mode: 1 to 20 Hz

Common Mode Rejection Ratio:
Diagnostic mode: >90 dB
Monitor mode: >105 dB (with notch filter on)
Surgical mode: >105 dB (with notch filter on)
Notch filter: 50/60 Hz
Monitor, surgical mode: notch filter turns on automatically
Diagnostic mode: notch filter is turned on/off manually
Differential input impedance ≥5 MΩ
Input signal range ±8mV (peak-to-peak value)
Accuracy of Signal reproduction:
- Use A and D methods based on IEC 60601-2-25 to determine frequency response.

Electrode Offset Potential Tolerance:
- ±500 mV

Lead-off Detection Current:
- Measuring electrode: <0.1 μA
- Drive electrode: <1 μA

Input Offset Current:
- ≤0.1 μA, (drive lead≤1μA)

Defibrillation Protection:
- Enduring 5000V (360 J)
- Baseline recovery time: <5 s (after defibrillation)
- Polarization recovery time: <10 s
- Defibrillation energy absorption: ≤10% (100Ω load)

Patient Leakage Current:
- <10 uA

Calibration Signal:
- 1mV (peak-to-peak value) ±5%

ESU protection:
- Cut mode: 300 W
- Coagulate mode: 100 W
- Recovery time: ≤10 s
- In compliance with the requirements in clause 202.6.2.101 of IEC 60601-2-27

ALARM LIMIT

HR High:
- Range:
- HR≤40 bpm: (low limit + 2 bpm) to 40 bpm
- HR > 40 bpm: (low limit + 5 bpm) to 295 bpm
- Step:
- HR≤40bpm: 1 bpm
- HR > 40 bpm: 5 bpm

HR Low:
- Range:
- HR≤40 bpm: 16 bpm to (high limit - 2 bpm)
- HR > 40 bpm: 40 bpm to (high limit - 5 bpm)

HR

Measurement Range:
- Neonate: 15 to 350 bpm
- Pediatric: 15 to 350 bpm
- Adult: 15 to 300 bpm

Resolution: 1 bpm
Accuracy: ±1 bpm or ±1%, whichever is greater.
Sensitivity: 200 μV (lead II)
HR Averaging Method:
- In compliance with the requirements in Clause 201.7.9.2.9.101 b) 3) of IEC 60601-2-27, the following method is used: If the last 3 consecutive RR intervals are greater than 1200 ms, the 4 most recent RR intervals are averaged to compute the HR. Otherwise, heart rate is computed by subtracting the maximum and minimum ones from the most recent 12 RR intervals and then averaging them. The HR value displayed on the monitor screen is updated no more than one second.

Response to Irregular Rhythm:
- In compliance with the requirements in Clause 201.7.9.2.9.101 b) 4) of IEC 60601-2-27, the heart rate after 20 seconds of stabilization is displayed as follows:
- Ventricular bigeminy (waveform A1): 80±1 bpm
- Slow alternating ventricular bigeminy (waveform A2): 60±1 bpm
- Rapid alternating ventricular bigeminy (waveform A3): 120±1 bpm
- Bidirectional systoles (waveform A4): 90±2 bpm

Response Time to Heart Rate Change:
- Meets the requirements of IEC 60601-2-27: Clause 201.7.9.2.9.101 b) 5).
- From 80 to 120 bpm: less than 11 s
- From 80 to 40 bpm: less than 11 s

Time to Alarm For Tachycardia:
- Meets the requirements in Clause 201.7.9.2.9.101 b) 6) of IEC 60601-2-27.
- Waveform: <11 s
  - B1h-range: <11 s
  - B1-range: <11 s
  - B1d-range: <11 s
  - B2h-range: <11 s
  - B2-range: <11 s
  - B2d-range: <11 s

Tall T-wave Rejection Capability:
- When the test is performed based on Clause 201.12.1.101.17 of IEC 60601-2-27, the heart rate calculation is not affected for QRS of 1 mV ampli tude and 100 ms duration, T-wave duration of 180 ms and amplitude lower than 1.2 mV, and QT interval of 350 ms.

Arrhythmia Analysis Classifications:
- Asystole, V-Fib/V-Tach, V-Tach, Vent Brady, Extreme Tachy, Extreme Brady, Vent Rhythm, PVCs/min, Pauses/min, Couplet, Bigeminy, Trigeminy, R on T, Run PVCs, PVC, Tachy, Brady, Missed Beats, Pacer Not Pacing, Pacer Not Capture, Multiform PVC, Nonsus V-Tach, Pause, Irr Rhythm, A-Fib

RESP SPECIFICATIONS

Technique: Trans-thoracic impedance
Lead:
- Lead I
- Lead II
- Auto

Respiration Excitation Waveform: <300 μA RMS, 62.8 kHz (±10%)
Minimum Respiration Impedance Threshold: 0.3Ω
Baseline Impedance Range:
- 200 to 2500Ω (using an ECG cable with 1kΩ resistance)

Bandwidth:
- 0.2 to 2.5 Hz (-3 dB)

Sweep Speed:
- 3mm/s, 6.25 mm/s, 12.5 mm/s, 25 mm/s or 50 mm/s, less than 10% error

Recovery Time: <15 s (after defibrillation)

RESPIRATION RATE
Measurement Range:
- Adult: 0 to 120 rpm
- Pediatric, Neonate: 0 to 150 rpm

Resolution: 1 rpm
Accuracy:
- 7 to 150 rpm: ±2 rpm or ±2%, whichever is greater 0 to 6 rpm: not specified

Apnea Alarm Delay:
- 10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s

ALARM LIMIT
RR High:
- Range (rpm):
- Adult, Pediatric:
- RR≤20 — (low limit + 2) to 20
- RR≤20 — (low limit + 5) to 100
- Neonate:
- RR≤20 — (low limit + 2) to 20
- RR≤20 — (low limit + 5) to 150
- Step (rpm):
- RR≤20: 1
- RR>20: 5

RR Low:
- Range (rpm):
- RR≤20 — 0 to (high limit - 2)
- RR≤20 — 20 to (high limit - 5)

SPO2 SPECIFICATIONS

ALARM LIMIT
SpO2 High:
- Range (%)
- (low limit + 2) to 100 1
- Step (%)
- 1

SpO2 Low:
- Masimo: (Desat+1) to (high limit - 2)
- Nellcor: (Desat+1) or 20 (whichever is greater) to (high limit - 2)

SpO2 Desat Low:
- 0 to (SpO2 low limit - 1)

MASIMO SPO2 MODULE
Standards:
Meets the requirements of ISO 80601-2-61: 2011
Measurement Range:
- 1 to 100%

Resolution: 1%
Response =Time:
- ≤20 s (normal perfusion, no disturbance, SpO2 value sudden changes from 70% to 100%)

Accuracy:
- 70 to 100%: ±2%ABS (measured without motion in adult/pediatric mode)
- 70 to 100%: ±3%ABS (measured without motion in neonate mode)
- 70 to 100%: ±3%ABS (measured with motion)
- 1% to 69%: Not specified.

Refresh Rate:
- ≤ 1 s

SpO2 averaging time:
- 2-4 s, 4-6 s, 8 s, 10 s, 12 s, 14 s, 16 s

Low perfusion conditions Pulse amplitude: >0.02%
Light Penetration: >5%
Low Perfusion SpO2 Accuracy: ±2%
PI measurement Range: 0.02 to 20%

NELLCOR SPO2 MODULE
Measurement Range: 0 to 100%
Resolution: 1%
Refreshing Rate: ≤1 s
Response Time:
- ≤30 s (normal perfusion, no disturbance, SpO2 value sudden change from 70% to 100%)

Recovery Time: <15 s (after defibrillation)
Accuracy:
- 70 to 100%: ±2%ABS (adult/pediatric)
- 70 to 100%: ±3%ABS (neonate)
- 0% to 69%: Not specified.

PR SPECIFICATIONS

ALARM LIMIT
PR High:
Range:
PR≤40bpm: (low limit + 2 bpm) to 40 bpm
PR > 40 bpm: (low limit + 5 bpm) to 295 bpm
Step:
PR≤40: 1 bpm
PR>40: 5 bpm
PR Low:
PR≤40bpm: 16 bpm to (high limit - 2 bpm)
PR > 40 bpm: 40 bpm to (high limit - 5 bpm)

PR FROM MASIMO SPO2
Measurement Range: 25 to 240 bpm
Resolution: 1 bpm
Response Time:
≤20 s (with normal perfusion, no disturbance, and a PR value transition from 25 to 220 bpm)
Accuracy:
±3 bpm (measured without motion)
±5 bpm (measured with motion)
Refresh Rate: ≤1 s

PR FROM NELLCOR SPO2 MODULE
Measurement Range: 20 to 300 bpm
Resolution: 1 bpm
Response Time:
≤30 s (normal perfusion, no disturbance, PR value sudden change from 25 to 250 bpm)
Accuracy:
20 to 250 bpm: ±3 bpm
251 to 300 bpm, not specified
Refreshing Rate: ≤1 s

TEMP SPECIFICATIONS

Standard:
Meet the standard of ISO 80601-2-56: 2017
Technique: Thermal Resistance
Operating Mode: Direct mode
Measurement Range: 0 to 50 °C (32 to 122 °F)
Resolution: 0.1°C
Accuracy: ±0.1 °C or ±0.2 °F (excluding probe error)
Refreshing Rate: ≤1 s
Minimum Time for Accurate Measurement Body Surface: <100 s
Body Cavity: <80 s
Recovery Time: <15 s (after defibrillation)

ALARM LIMIT
TXX High (XX refers to temperature site):
Range:
(low limit +1.0) to 50.0 °C
(low limit +2.0) to 122.0 °F
Step:
0.1 °C
0.1 °F
TXX Low (XX refers to temperature site):
Range:
0.1 to (high limit - 1.0) °C
32.2 to (high limit - 2.0) °F
ΔT High:
Range:
0.1 to 50.0 °C
0.2 to 90.0 °F

NIBP SPECIFICATIONS

Standard:
Meet standard of IEC 80601-2-30: 2018
Technique: Oscillometry
Mode of Operation:
Manual,
Auto,
STAT
Sequence
Auto Mode Repetition Intervals:
1, 2, 2.5, 3, 5, 10, 15, 20, 30,
60, 90, 120, 180, 240 or 480 min
STAT Mode Cycle Time: 5 min
Max Measurement Time:
Adult, Pediatric: 180 s
Neonate: 90 s
Heart Rate Range: 30 to 300 bpm
Measurement Ranges (mmHg):
Adult:
Systolic: 25 to 290
Diastolic: 10 to 250
Mean: 15 to 260
Pediatric:
Systolic: 25 to 240
Diastolic: 10 to 200
Mean: 15 to 215
Neonate:
Systolic: 25 to 140
Diastolic: 10 to 115
Mean: 15 to 125
Accuracy Max:
Mean error: ±5 mmHg
Max standard deviation: 8 mmHg
Resolution:
1mmHg
Initial Cuff Inflation Pressure Range (mmHg):
Adult: 80 to 280
Pediatric: 80 to 210
Neonate: 60 to 140
Default Initial Cuff Inflation Pressure (mmHg):
Adult: 160
Pediatric: 140
Neonate: 90
Software Overpressure Protection:
Adult: 297±3 mmHg
Pediatric: 297±3 mmHg
Neonate: 147±3 mmHg
Static Pressure Measurement Range: 0 mmHg to 300 mmHg
Static Pressure Measurement Accuracy: ±3 mmHg
Recovery Time: <15 s (after defibrillation)

PR
Measurement Range: 30 to300 bpm
Resolution: 1 bpm
Accuracy:
±3bpm
or ±3%, whichever is greater

ALARM LIMIT

NIBP-S High:
- Range:
- Adult: (low limit + 5) to 285
- Pediatric: (low limit + 5) to 235
- Neonate: (low limit + 5) to 135

NIBP-S Low:
- Range:
- 26 to (high limit - 5

NIBP-M High:
- Adult: (low limit + 5) to 255
- Pediatric: (low limit + 5) to 210
- Neonate: (low limit + 5) to 120)

NIBP-M Low:
- 16 to (high limit - 5)

NIBP-D High:
- Adult: (low limit + 5) to 245
- Pediatric: (low limit + 5) to 195
- Neonate: (low limit + 5) to 110

NIBP-D Low:
- 11 to (high limit - 5)

NIBP-S Extreme High:
- NIBP-S high limit < 50
- Adult: (NIBP-S high limit + 1) to 290
- Pediatric: (NIBP-S high limit + 1) to 240
- Neonate: (NIBP-S high limit + 1) to 140
- NIBP-S high limit ≥ 50
- Adult: (NIBP-S high limit + 5) to 290
- Pediatric: (NIBP-S high limit + 5) to 240
- Neonate: (NIBP-S high limit + 5) to 140

NIBP-S Extreme Low:
- NIBP-S low limit ≤ 50
- 25 to (NIBP-S low limit - 1)
- NIBP-S low limit > 50
- 25 to (NIBP-S low limit - 5)

NIBP-M Extreme High:
- NIBP-M high limit < 50
- Adult: (NIBP-M high limit + 1) to 260
- Pediatric: (NIBP-M high limit + 1) to 215
- Neonate: (NIBP-M high limit + 1) to 125
- NIBP-M high limit ≥ 50
- Adult: (NIBP-M high limit + 5) to 260
- Pediatric: (NIBP-M high limit + 5) to 215
- Neonate: (NIBP-M high limit + 5) to 125

NIBP-M Extreme Low:
- NIBP-M low limit ≤ 50
- 15 to (NIBP-M low limit - 1)
- NIBP-M low limit > 50
- 15 to (NIBP-M low limit - 5)

NIBP-D Extreme High:
- NIBP-D high limit < 50
- Adult: (NIBP-D high limit + 1) to 250
- Pediatric: (NIBP-D high limit + 1) to 200
- Neonate: (NIBP-D high limit + 1) to 115
- NIBP-D high limit ≥ 50
- Adult: (NIBP-D high limit + 5) to 250
- Pediatric: (NIBP-D high limit + 5) to 200
- Neonate: (NIBP-D high limit + 5) to 115

NIBP-D Extreme Low:
- NIBP-D low limit ≤ 50
- 10 to (NIBP-D low limit - 1)
- NIBP-D low limit > 50
- 10 to (NIBP-D low limit - 5)

CO2 SPECIFICATIONS

Measurement Mode:
- Sidestream
- Microstream

Technique:
- Infrared Absorption

Apnea Delay:
- 10 s, 15 s, 20 s, 25 s, 30 s, 35 s, 40 s

ALARM LIMIT

EtCO2 High:
- Range:
- (low limit + 2) to 99 mmHg
- Step:
- 1 mmHg

EtCO2 Low:
- Range:
- 1 to (high limit - 2)mmHg
- Step:
- 1 mmHg

FiCO2 High:
- Range:
- 1 to 99 mmHg
- Step:
- 1 mmHg

SIDESTREAM CO2 MODULE

Standard:
Meet the standard of ISO 80601-2-55: 2011
CO2 Measurement Range: 0 to 150 mmHg
CO2 Absolute Accuracy:
- Full accuracy mode:
- 0 to 40 mmHg: ± 2 mmHg
- 41 to 76 mmHg: ±5% of reading
- 77 to 99 mmHg: ±10% of reading
- 100 to 150 mmHg: ±(3 mmHg + 8% of reading)
- ISO accuracy mode: add ±2mmHg to the full accuracy mode

CO2 Resolution: 1 mmHg
Recovery Time: <15 s (after defibrillation)
Accuracy Drift:
- Meet the requirement for measurement accuracy within 6 hours

Sample Flowrate:
- Connected a DRYLINE II water-trap for adult and pediatric patient: 120 ml/min
- Connected a DRYLINE II water-trap for neonatal patient: 90 ml/min or 70 ml/min

Sample Flowrate Tolerance:
- ±15% or ±15 ml/min, whichever is greater.

Start-up time:
- Maximum: 90 s
- Typically: 20 s

Response Time:
Measured with a DRYLINE II neonatal watertrap and a 2.5-meter neonatal sampling line:
- ≤5.0 s @ 70 ml/min
- ≤4.5 s @ 90 ml/min

Measured with a DRYLINE II adult watertrap and a 2.5-meter adult sampling line:
- ≤5.0 s @ 120 ml/min

Rise Time:
Measured with a DRYLINE II neonatal watertrap and a 2.5-meter neonatal sampling line:
- ≤250 ms@70 ml/min.
- ≤250 ms@90 ml/min.

Measured with a DRYLINE II adult watertrap
and a 2.5-meter adult sampling line:
- ≤300 ms@120 ml/min

awRR Measurement Range: 0 to 150 rpm
awRR Measurement Precision:
- ≤60 rpm: ±1
- 61 to 150 rpm: ±2

awRR Resolution: 1 rpm
Data Sample Rate: 50 Hz

EFFECT OF INTERFERENCE GASES ON CO2 MEASUREMENTS

N20:
- Concentration: ≤60%
- Quantitative Effect: ±1 mmHg

Hal:
- Concentration: ≤4%
- Quantitative Effect: ±1 mmHg

Sev:
- Concentration: ≤5%
- Quantitative Effect: ±1 mmHg

Iso:
- Concentration: ≤5%
- Quantitative Effect: ±1 mmHg

Enf:
- Concentration: ≤5%
- Quantitative Effect: ±1 mmHg

Des:
- Concentration: ≤15%
- Quantitative Effect: ±2 mmHg