



PATIENT MONITOR C86

SPECIFICATIONS

User interface: 15" colour TFT Touch Screen with trim knob & quick access keys

Standard configuration: ECG, Resp., SpO₂, NIBP, PR, 1 Temp

Optional configuration: 2 Temp, 2 IBP, EtCO₂, Cardiac Output, ICG, Thermal Recorder

12 waveforms

Up to 2.5 hours battery back-up

Calculation packages: Drugs & Hemodynamics, Ventilation, Oxygenation & Renal

Networking: Option of wired or wireless networking

SPECIFICATIONS

STANDARD CONFIGURATION

3/5 lead ECG, RESP, Comen SpO₂, NIBP, 1 Temp

OPTIONAL CONFIGURATION

2 Temp, 2 IBP, EtCO₂, Cardiac Output, Impedance Cardiography (ICG), BIS, Thermal Recorder

SAFETY STANDARDS

ISO 13485:2003 approved, CE marking according to MDD93/42/EEC

PHYSICAL CHARACTERISTICS

Product Size: 349.1mmx302.6mmx108.5mm
Weight: 4.2kg

OPERATION ENVIRONMENT

Temperature: 5-40°C
Humidity: ≤93%
Power supply: 100-240V~, 50/60Hz ± 1Hz
Battery type: Rechargeable plug & Lithium-ion battery
Battery capacity: 2200mAh
Battery recharging Time: Maximum 3.5 hours for charging
Battery working time: Up to 2.5 hours for continuous working
Display: 15" color TFT touch screen
Resolution: 1024x768
Trace: 12 waveforms
Night Mode Available

INDICATOR

Dual alarm indicator
Power indicator
Battery indicator
QRS beep and alarm sound
Operating key sound

DATA STORAGE

Alarm event recall: 500 groups (120hours)
Wave recall: 6 hours
NIBP recall: 2000 groups
Trend graph: 120 hours
Trend table: 120 hours
Power-off storage alarm:
User-adjustable High and Low Prioritized audible and visual alarm 3-level Limits
Network: Connected to Central Monitoring System by hardware/wireless

RECORDER

Type: Built-in thermal array
Channel: 3 channel wave forms
Speed: 25mm/s, 50mm/s
Record width: 50mm

TEMPERATURE (Dual Channel)

Range: 0-50°C (32 to 122°F)
TEMP sensor: Skin/rectal TEMP sensor
Resolution: 0.1°C
Accuracy: ±0.1°C (Exclusive of error of sensor)
Channel: T1, T2, TD (Temperature Difference)

ECG

Lead type:

CardioTec™ 5-leads ECG Analysis, 12-Lead and 3-lead selectable
12-lead cable: I; II; III; aVR; aVL; aVF; V1-V6
5-lead cable: RA; LA; RL; LL; V or R; L; N; F; C
3-lead cable: Lead selection: RA; LA; LL or R; L; F

Lead selection:

12-Lead I; II; III; aVR; aVL; aVF; V1-V6,
5-lead: I; II; III; aVR; aVL; aVF; V, 3-lead: I; II; III

Gain selection: X0.125, X0.25, X0.5, X1, X2, X4, auto

Sweep speed: 6.25, 12.5, 25, 50mm/s

Heart rate range:

Adult: 15-300 bpm
Pediatric/Neonate: 15-350bpm

Resolution: 1 bpm

Protection: Withstand 4000VAC/50Hz voltage in isolation; electro-surgical interference and defibrillation

Accuracy: ±1% or ±1bpm (whichever is greater)

Bandwidth :

MON Mode: 0.5 Hz~40 Hz
DIA Mode: 0.05Hz~130 Hz
OPE Mode: 1 Hz~20 Hz
ST Mode: 0.05Hz~40Hz

ST detection: -2.0mV+2.0mV (Automatic)

Arrhythmia analysis: 16 Types

RESPIRATION

Method: Thoracic impedance

RR measurement range:

Adult: 0-120rpm,
Pediatric/Neonate: 0-150rpm

Resolution: ±1 rpm

RESP apnea alarm:

10s-60s (Adult); 10-20s (Pediatric/Neonate)
Audible and visual alarm; alarm events recallable

Sweep speed: 6.25, 12.5, 25mm/s

Gain selection: X0.25, X0.5, X1, X2, X3, X4

IBP

Channel: 2 Channels

Measured pressure: ART, PA, CVP, RAP, LAP, ICP, P1, P2

Measurement range:

ART: 0~300mmHg

PA: -6~120 mmHg

CVP: -10~40mmHg

RAP: -10~40mmHg

LAP: -10~40mmHg

ICP: -10~40mmHg

P1, P2: -50~300mmHg

IBP accuracy: $\pm 2\%$ or $\pm 1\text{mmHg}$, (whichever is greater)

Alarm range: -50mmHg~300mmHg

NIBP

Method: Automatic oscillometric

Work mode: Manual / Automatic / Continuous

Auto measure time: Adjustable (1- 480 min)

Measurement Unit: mmHg / Kpa selectable

Measurement types: Systolic, Diastolic, Mean

Range of systolic pressure:

Adult Mode: 40-270mmHg

Pediatric Mode: 40-200mmHg

Neonate Mode: 40-135mmHg

Range of diastolic pressure:

Adult Mode: 10-215mmHg

Pediatric Mode: 10-150mmHg

Neonate Mode: 10-100mmHg

Range of mean pressure:

Adult Mode: 20-235mmHg

Pediatric Mode: 20-165mmHg

Neonate Mode: 20-110mmHg

Over-pressure protection: Both hardware and software over pressure protection

Accuracy: Less than $\pm 5\text{mmHg}$

Resolution: 1mmHg

Alarm: Systolic, Diastolic, Mean

PR from NIBP: 40-240 bpm

CARDIAC OUTPUT (C.O.)

Method: Thermodilution

Range:

C.O.: 0.1-20 L/min

BT: 25-43°C

IT: 0-25°C

Resolution:

C.O.: 0.1 L/min

BT, IT: 0.1°C

Accuracy: C.O.: $\pm 5\%$ or $\pm 0.1\text{ L/min}$, (whichever is greater); BT, IT: $\pm 0.1^\circ\text{C}$ (no sensor)

Alarm range:

BT Hi limit: (LO limit +0.1) ~ 43°C

BT Lo limit: (Hi limit-0.1) ~ 25.0°C

Step: 0.1°C

COMEN SpO₂

Measurement & alarm range: 0~100%

Resolution: 1%

Accuracy:

$\pm 2\%$ (70~100%, Adu/Ped, non-motion)

$\pm 3\%$ (70-100%, Neo, non-motion)

Unspecified (0-69%)

Alarm range: 0~100%

PR measurement

Range: 25-254 bpm

Resolution: 1 bpm

Accuracy: $\pm 2\text{ bpm}$

NELLCOR SpO₂

Measurement & alarm range: 0-100%

Resolution: 1%

Accuracy: $\pm 2\%$ (70-100%, MAX-A, MAX-AL,

MAX-N, MAX-P, MAX-I and MAX-FAST sensors);

$\pm 3\%$ (70-100%, D-YS, DS-100A, OXI-A/N and

OXI-P/I sensors); 0-69% unspecified

PR measurement

Range: 20-300 bpm

Resolution: 1bpm

Accuracy: $\pm 3\text{bpm}$ (20-250 bpm); Unspecified (251-300 bpm)

Alarm range: 20-300 bpm

MASIMO SpO₂

Measurement & alarm range: 0~100%

Resolution: 1%

Accuracy: $\pm 2\%$ (70-100%, Adu/Ped, non-motion);

$\pm 3\%$ (70-100%, Neo, non-motion); $\pm 3\%$ (70-100%,

motion) Unspecified (0-69%)

Alarm range: 1~100%

PR measurement

Range: 25~240 bpm

Resolution: 1bpm

Accuracy: $\pm 3\text{bpm}$ (non-motion); $\pm 5\text{bpm}$ (motion)

Alarm range: 25~240 bpm

COMEN EtCO₂ (Sidestream and Mainstream)

Range: 0 -152 mm Hg, 0 to 20%

Accuracy: $\pm 2\text{ mmHg}$ (0 - 40 mmHg); $\pm 5\%$ of

reading (41 - 70 mmHg); $\pm 8\%$ of reading (71

-100 mmHg); $\pm 10\%$ of reading (101 -152 mmHg)

awRR range: 2-150 bpm

awRR accuracy: $\pm 1\text{ bpm}$

RESPIRONICS EtCO₂ (Sidestream and Mainstream)

Range: 0 -150 mm Hg, 0 to 79%, 0 to 20kPa (@ 760mmHg)

Accuracy: $\pm 2\text{ mmHg}$ (0 - 40 mmHg); $\pm 5\%$ of

reading (41 - 70 mmHg); $\pm 8\%$ of reading (71

-100 mmHg); $\pm 10\%$ of reading (101 -150 mmHg)

awRR range: 0-150 rpm

awRR accuracy: $\pm 1\text{ rpm}$

MASIMO EtCO₂ (Sidestream and Mainstream)

Range: 0 -190 mm Hg, 0 to 25% (@ 760mmHg)
Accuracy: 0 mmHg-114 mmHg: ± 1.52 mmHg+2%;
114 mmHg -190 mmHg: Not specified
AwRR range: 0-150rpm
AwRR accuracy: ± 1 rpm
Response time:
MasimoEtCO₂ (Sidestream): <3s (2 meter
sampling line)
MasimoEtCO₂ (Mainstream): <1s

IMPEDANCE CARDIOGRAPHY (ICG)

Method: Thoracic Bio-impedance measurement
Range: SV: 0-250 ml/b
HR: 40-250 bpm
C.O.: 0-30 L/min
Accuracy: SV: unspecified
HR: ± 2 bpm
C.O: unspecified
Alarm range: CI: HI (LO+0.1) -15.0 L/min/m²
LO: 0 - (HI+ 0.1) L/min/m²
TFC: HI (LO+1) -150/K Ω
Alarm deviation:
LO: 10 - (HI-1) K Ω
CI: ± 0.1 L/min/m²
TFC: ± 1 K Ω

BIS

Measurement range:
BIS: 0-100
SQI: 0-100%
EMG: 25dB-100dB SR: 0-100%
Alarm range:
Upper limit: 2-100
Lower limit: 0-98



Call our toll free number 1800-209-9003
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