



PATIENT MONITOR C80

SPECIFICATION

User interface: 12.1" 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
 US FDA & CE certified
 Up to 2 hours battery back-up
 Calculation packages: Drugs & hemodynamics
 Networking: Option of wired or wireless networking

STANDARD CONFIGURATION

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

OPTIONAL CONFIGURATION

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

SAFETY STANDARDS

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

PHYSICAL CHARACTERISTICS

Product Size: 346.1mmx301.5mmx178.5mm

Weight: 3.9kg

SPECIFICATIONS

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: 2 hours for continuous working

Display: 12.1" color TFT touch screen

Resolution: 800*600

Trace: 12 waveforms

INDICATOR

One alarm indicator

Power indicator

Battery indicator

QRS beep and alarm sound

Operating key sound

INTERFACE

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 hardwire/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 (Adu); 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: ±2% or ±1mmHg, (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 ± 5 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 ± 0.1 L/min (whichever is greater); BT, IT: $\pm 0.1^\circ\text{C}$ (no sensor)

Alarm Range:

BT Hi limit: (LO limit +0.1) $\sim 43^\circ\text{C}$

BT Lo limit: (Hi limit-0.1) $\sim 25.0^\circ\text{C}$

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: ± 2 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: ± 3 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: ± 3 bpm (non-motion); ± 5 bpm (motion)

Alarm Range: 25~240 bpm

COMEN EtCO₂ (Sidestream and Mainstream)

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

Accuracy: ± 2 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: ± 1 bpm

RESPIRONICS EtCO₂ (Sidestream and Mainstream)

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

Accuracy: ± 2 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: ± 1 rpm

MASIMO EtO₂ (Sidestream and Mainstream)

Range: 0 -190 mm Hg, 0 to 25% (@ 760mmHg)

Accuracy: 0mmHg-114mmHg: ± 1.52 mmHg+2%; 114mmHg -190mmHg: Not specified

AwRR Range: 0-150rpm

AwRR Accuracy: ± 1 rpm

Response Time:

Masimo EtCO₂ (Sidestream): <3s (2 meter sampling line)

Masimo EtCO₂ (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



Call our toll free number 1800-209-9003
or write to us at teamgehc@ge.com
www.gehealthcare.com