C80 Intensive Care Unit Monitor

Technical Specification

Safety
ISO 13485: 2003 approved,
CE marking according to MDD93/42/EEC
Degree of protection
against harmful ingress of water： IP×1

Operation Environment
Power: AC100-250V, 50/60Hz.
Temperature: 0-40℃
Humidity: 15-85%
Patient Range: Adult, Pediatric, Neonate

Physical Characteristics:
Dimension : 430mm×340mm×390mm
G.W: 9.5kg
N.W: 6kg

Performance Specifications
Display: 12.1 inch color TFT touch screen (diagonal)
Rolling and refreshing waveform display
Resolution: 800×600
Multi displays selectable, including:
Standard display
Freeze display
Large -font Display
Trend coexist display
Alarm limit display
OxyCRG dynamic view display
Bed-to-bed view display
Multi-lead and ECG simultaneous display
Trace: 12 waveforms
Sweep Speed: 12.5mm/s, 25mm/s, 50mm/s
Indicator: Power indicator light
Battery indicator light
Inter face: Parameter cable inter face
AC Power input socket
Network inter face
External VGA interface
Alternate Display
Battery: Lithium-ion battery /Rechargeable
Plug & play battery, capacity:4000mA
Maximum 12 hours for charging;
4 hours for continuous working
Trend time:1~120 hours
Alarm: User-adjustable High and Low limits
audible and visual alarm
Networking: Connected to central monitoring system
Recorder: Built-in, thermal array
Waveform: 2 channels
Record mode: manual, on alarm, time -defined, etc
Paper width: 50mm
Print speed: 12.5 mm/s, 25mm/s, 50mm/s

Internal Modules: Individual Modules
ECG module, SpO_2 module, NIBP module,
Main control module and power supply module.

ECG
-CardioTec™ 12-leads ECG Analysis
Heart Rate Range
Adult: 15-300bpm
Pediatric/Neonate:15-350bpm
Accuracy: ±1% or ± 2 bpm (whichever is greater)
Resolution: 1 bpm
ECG enlarge width:
MON: 0.5-40Hz
DIA: 0.05-130Hz
OPE: 1-20Hz
ECG waveform: 2 channels
ST SEGMENT detection: -2.0mV - +2.0Mv (Automatic)
Arrhythmia analysis: yes
Electrode desquamated indicator: Voice & light indication
Gain selection : ×1/4、×1/2 、×1、×2、Auto
sweep speed: 12.5mm/s, 25mm/s, 50mm/s
HR alarming time: ≤ 12s
PR from ECG:
Adult: 15-300bpm
Pediatric/Neonate: 15-350bpm
ECG noise level: = 30 uV (P-P value)
ECG input loop current: 0.1 Ua
input impedance: ＞5 MΩ
CMRR: ≥105 Db

Time constant :
Monitoring mode ≥0.3s
Diagnostics Mode≥3.2s
Anti-jamming : line frequency,
electrosurgical interference and defibrillation
Arrhythmia Analysis and pacemaker detection
ECG cable: standard configuration ECG cable for Adult
Standard two ECG cables to support
12 leads ECG analysis
Alarm setting: Adjustable from lower to upper
and automatic memory
Waveform: standard 12-ECG waveforms

Nellcor SpO_2-Standard
Display: SpO_2 digital, Pulse columnar graphics,
volume waveform, Pulse rate
Measurement range: 0~100%
Resolution: 1%
Accuracy:
±2% (90-100%, MAX-A, MAX-AL, MAX-N,
MAX-P, MAX-I and MAX-FAST sensors);
±3% (70-100%, D-YS, DS-100A,
OXI-A/N and OXI-P/I sensors);
0-69% unspecified
Alarm range: 0~100%
Pulse rate:
Range: 20~300bpm
Resolution: 1bpm
Accuracy: ±3bpm
Alarm range:20~300bpm
Exclusive SatSeconds™ alarm management system,
much lower false alarms, much less word for users

AcuTec™ NIBP
Measurement method: Automatic vibration
Measurement types: Systolic, Diastolic, Mean
Work mode: Manual / Automatic/Continuous
Auto measurement time: Adjustable 1min-480min
Measurement unit: mmHg / Kpa selectable
Measurement range:10-270mmHg
Adult/Pediatric Mode:Systolic pressure60~240mmHg
Diastolic pressure 30-190mmHg
Mean pressure 40-210mmHg
Neonatal Mode: Systolic pressure25-135mmHg
Diastolic pressure 12-110mmHg
Mean pressure 18-120mmHg
Alarm type Systolic pressure, Diastolic pressure,
Mean pressure
Accuracy: 5mmHg
NIBP pressure range: 0-300 mmHg
PR from NIBP: Measurement 40-240bpm
Over-pressure protection: Hardware and software
both over pressure protection
300 mmHg is the max pressure.
Higher than the above pressure,
the safety valve deflate automatically.
NIBP cuff:
Standard - Adult NIBP cuff ;
Optional - Pediatric NIBP cuff , Neonatal NIBP cuff
Alarm setting: Adjustable from lower
to upper and automatic memory

IBP
Measurement Mode: Pressure Transducer
Measurement Types: Systolic, Diastolic, Mean
Channel: 2 channel
Pressure names: AVP, CVP, PAR, LAP, RAP, ICP
Measurement Range: -30mmHg~300mmHg
IBP Accuracy: 0~100mmHg ±4mmHg
100mmHg~300mmHg ±2%
Pulse Accuracy: ±1% or ±1bpm,
whichever is greater
Calibration Mode: Zero Calibration

Dual TEMP
Measurement range: 0-50℃
Channel: T1, T2, TD (Temperature Difference)
Resolution: 0.1℃
Accuracy: 0.1℃(exclusive of error of sensor)
Measurement unit: C / F selectable
TEMP sensor: standard configuration- skin TEMP sensor,
Alarm setting: Adjustable from lower to upper
and automatic memory

RESP
Method:R-F(RA-LL) impedance method
RR measurement range:
Adult: 7-120bpm
Neonate: 7-150bpm
Resolution: 1 rpm
Accuracy: 1rpm
Alarm setting: Adjustable from lower to upper
and automatic memory
ARR analysis, RESP Apnea Alarm:10s-40s

$EtCO_2$
Sidestream CO_2
CO_2 Measurement Range: 0 -150 mm Hg, 0 to 79%,
0 to 20kPa (at 760mmHg)
Accuracy: ± 2 mm Hg (0 40 mm Hg)
± 5% of reading (41 70 mm Hg)
± 8% of reading (71 100 mm Hg)
± 10% of reading (101 150 mm Hg)
Sampling Rate: 50ml/min. ±10ml/min
Sampling rate accuracy: 15%
Start-up time: <1 min, once the module starts up,
it reaches ISO accuracy
Mode: 10 minutes after start-up, the module reaches
full accuracy mode
Respiration rate: 0-120bpm
Respiration rate accuracy: ±2rpm (0-70rpm)
±5rpm (>70rpm)
Response time: <240msec (10% to 90%)
Delay time: <2s
(Sampling line length: 7 inches; internal diameter:
0.055 inches; sampling gas flow rate: 150ml/min)

Mainstream CO_2
Method: Infrared Absorption
Measuring mode: Mainstream
Measurement range: 0 -150 mm Hg, 0 to 79%,
0 to 20kPa (at 760mmHg)
Resolution: 0.1 mmHg 0 to 69 mmHg
0.25mmHg 70 to 150mmHg
Accuracy:± 2 mm Hg (0 40 mm Hg)
± 5% of reading (41 - 70 mm Hg)
± 8% of reading (71 - 100 mm Hg)
± 10% of reading (101 - 150 mm Hg)

Shenzhen Comen Medical Instruments Co., Ltd.
Add: Floor 7, Block 5, 4th Industrial Park of Nanyou,Nanshan District, Shenzhen City 518052, China
Tel:+86-755-2640 8879 2641 9446 Fax:+86-755-2643 1232
Website: www.szcomen.com E-mail: info@szcomen.com

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C80
Intensive Care Unit Monitor

CE 0434

C80 ICU Monitor

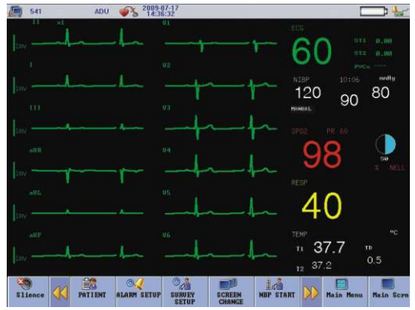
Critical time

Seize every second for saving life

C80 uses CardioTec™ ECG technology, world leading OxiMax® technology, high precision AcuTec™ hypertension monitoring technology as standard configuration. C80 incorporates world's best medical technology for SpO_2 , ICG , $EtCO_2$, Anesthesia Gas Monitoring from the world's best OEM technology providers like NELLCOR, RESPIRONICS, ARTEMA & BIOZ. Precisely, C80 provides medical professionals with powerful monitoring options and functionality to match the demands of a wide range of care , in any hospital environment.

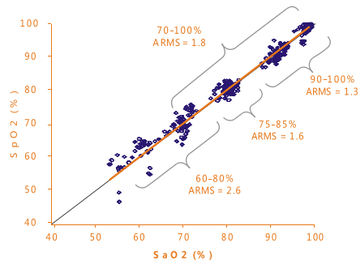
ECG

- CardioTec™ technology 12-lead ECG waveform synchronously display High precision ECG meansurement technology, provides professional diagnosis asistance.
- CMRR≥105dB, outstanding ECG anti-interference capability.
- Support arrhythmia analysis & alarm review.



SPO_2

- World advanced SpO_2 technology, OxiMax®.
- Unique Sensor in the Market with Digital Memory Chip: Every sensor is calibrated to its own specific needs; Desaturation Event Reports in the Sensor.
- Unique LoSat™ provides Highest Accuracy Range Expanded LoSat™ Accuracy from 60% to 100%.
- Exclusive SatSeconds™ Alarm Management System Much Lower False Alarms; Much Less Work for Users.



- IPX1 Level Waterproof

- Auto dust shield to prevent from foreign matter.

- Handwriting pen,SD card and USB interface.

- Wall mount, rolling stand/trolley.

- 4000mAh Li-ion battery, above 4 hours working time.

Anesthetic Gas

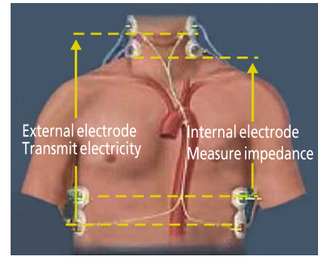
- Collaboration with Sweden Phase-in, adopt the advanced anesthetic gas module for monitoring 8 types of gas (O_2 , CO_2, N_2O,ENF, ISO, DES, SEV, HAL). Automatic recognition of the anesthetic gas, short time for warm-up,long service life and support the MAC value (minimum alveolar concentration).

$EtCO_2$

- Collaborate with US RESPIRONICS, Plug and Play EtCO2 monitoring.
- Choose CAPNOSTAT 5 mainstream sensor for optimal performance in monitoring intubated patientient.
- Small, durable and lightweight mainstream sensor provides accurate and reliable monitoring for all intubated patients from neonates to adults.
- No calibration required.
- Select LoFlo sidestream sensor for monitoring non-intubated patient
- Flexible, compact CO2 sensor provides consistent and reliable monitoring of adult, pediatric and neonatal patients
- Sample rate ≤ 50ml/min(micro-stream)

Non-invasive Hemodynamic

- Collaboration with US BIOZ, impedance cardiography for non-invasive continuous hemodynamic monitoring.
- Micro-signal transmit through disposable electrode.
- Measurement and display of ICG.
- Blood volume and Blood Flow Velocity varies with heartbeat, DISQ® technology processes impedance signal variation.
- Variation of impedance applies to non-invasive Z MARC™ algorithm for acquiring SV, CO, SVR, Contractility and TFC etc.



Intelligent Alarm

- I-Klok™ intelligent alarm management, auto-identification alarm level. Self-adjustproper alarm time to reduce false alarms.