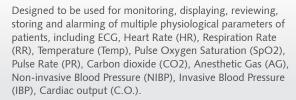


PG S70 Semi-modular Patient Monitor









Thanks to their high resolution color 15"TFT LCD display touchscreen, PG S70 takes under control physiological data and store it in the trends.

Reliable acoustic and visual alarms, nurse call connector system in hospital and easy data management through wired network connector or Wi-Fi connection with the central monitoring system, USB-interface or SD Memory card (option).









PG S70

TECHNICAL SPECIFICATIONS



Display PG S70: 15" Color TFT LCD touchscreen Resolution: 768X1024 pixels

Resolution: 768A 1024 pixels **Battery**Type: rechargeable Lithium battery, 11.1V/4.0Ah

Operating time under the normal use and full

charge: ≥120 minutes (2 batteries for 240

minutes)
Power supply
Power voltage: AC 100-240V 50/60Hz
Input current: 1.1 ~ 0.5A
Safety class: category I
Size and Weight
Size: 335mmx366mmx172mm
Weight: ≤6 kg
Standard module slot: 3
Percenter (Outpo)

Standard module slot: 3
Recorder (Option)
Method: thermal dot array
Paper width: 50mm (1.97 in)
Paper length: 15m
Paper speed: 12.5/25/50 (mm/sec)
Traces: maximum 3 tracks
Recording way: real-time recording, periodic recording, alarm recording

recording, alarm recording
Input device
Touch screen: standard config.
Knob: standard config.
Mouse input support
Keyboard input support

Auarm
Level: low, medium and high
Indication: auditory and visual
Patient physiological alarm light color: yellow
& red

Equipment

& red
Equipment technical alarm light color: blue
Supports pitch tone and multi-level volume
System output & extensible interfaces
Ethernet Network: 1 Standard RJ45 socket
Defibrillation Output: 1 BNC connector
Video output: 1 RJ1 connector
Video output: 1 VGA port
USB 1.1 port: 2
SD memory card: 2G (option)
Analog Output (ECG or IBP): option
Trend and reviewing
Trend and reviewing

Trend and reviewing
Trend: lond irend: 168 hours minimum resolu-

1 min (store when power goes off) High resolution trend:2h minimum resolution

High resolution trend:2h minimum resolution is 5s NIBP measurement reviewing: 1000 groups ARR event: 128 groups of ARR event and the associated waveform Alarm events: 128 groups of parameter alarm evens and associated parameter waveform at the alarm moment Full disclosure waveform: 24 hours for 3 waveforms (with 4G SD card)

Environment

Environment
Operating temperature: 0 ~ +40°C
Storage temperature: -20°C to +50°C
Operating humidity: 15% to 85% (non condensing)
Storage humidity: 10% to 93% (non condensing)

Operating atmospheric pressure: 860hPa to 1060hPa

Storage atmospheric pressure: 500hPa to 1060hPa

Safety IEC60601-1 approved, CE marking according to MDD93/42/EEC

PERFORMANCES

Lead mode: 3-leads ECG input; 5-leads ECG input; Lead mode: 3-leads ECG input; 5-leads ECG input; 12-leads ECG input 12-leads ECG input Lead selection: I, II, III -I, II, III, aVR, aVL, aVF, V − I, II, III, aVR, aVL, aVF, V1 ~ V6 (option) Gain: 2.5mm/mV(x0.25), 5mm/mV(x0.5), 10mm/mV(x1); 20mm/mV(x2), 40mm/ mV(x4), Auto CMRR: monitor mode ≥105dB; surgery mode

≥105dB; diagnostic mode ≥90dB Frequency response (-3dB): monitor mode 0.5~40Hz; surgery mode 1~25Hz; diagnostic mode 0.05~150Hz Input impedance: ≥5.0 MΩ ECG signal range: ± 10.0 mV Electrode offset potential: ±500 mV Patient leakage current: <10 uA Standardizing signal: 1 mV ± 5% Baseline recovery: <5s after Defibrillation.(Mon or Surg mode) Indication of electrode separation: every electrode (exclusive of RL) Protection: breakdown voltage 4000VAC 50/60Hz, defibrillator proof Sweep speed: 12.5mm/s, 25mm/s, 50mm/s HR ≥105dB: diagnostic mode ≥90dB

HR
Range: Adult 10~300 bpm;
Pediatric & Neonate: 10~350 bpm
Refreshing time: ≤50 bpm per 2 pulses;
50~120 bpm per4 pulses;
≥120 bpm per 6 pulses
Resolution: 1 bpm
Accuracy: ±1% or ±1 bpm, whichever is greater
ST Segment
Measurement range: -2.0mV~2.0mV
Accuracy: -0.8mV~0.8mV; ±0.02mV or ±10%
whichever is greater. Over ±0.8mV unspecified
Resolution: 0.01mV
RESP

RESP
Method: thoracic impedance
Lead selected from: I (RA-LA) or II (RA-LL).
Default I
Gain: x0.25, x1, x2, x4
Bandwidth: 0.25Hz to 2GHz (-3dB)
Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s
Measurrement range: 0~150 rpm
Resolution: 1rpm

Measurement range: 0~150 rpm Resolution: 1rpm Accuracy: ±2 rpm or 2% whichever is greater Delay of apnea alarm: 10s,15s,25s,30s,35s, 40s,45s,50s,,55s,60s TEMP Max channel: 8

Measurement way: thermal resistance way Measurement range: 0.0°C~50.0°C

(32°F~122°F)
Accuracy: ±0.1°C or ±1°F (exclusive of probe)
Resolution: 0.1°C or 1°F
Unit: Celsius (°C), Fahrenheit (°F)
NIBP

Way of measurement: automatic oscillometry

way of measurement: automatic oscinometry Range of measurement: Adult: SYS 30~270 mmHg; DIA 10~220mmHg; MAP 20~235 mmHg Child: SYS 30~235 mmHg; DIA 10~220mmHg; MAP 20~225 mmHg Neonate: SYS 30~135 mmHg; DIA 10~100

Neonate: SYS 30~135 mmHg; DIA 10~100 mmHg; MAP 20~125 mmHg
Cuff pressure range: 0~300 mmHg
Resolution: 1 mmHg
Pressure accuracy:
Static: ±2% or ±3% mmHg whichever is greater
Clinical: ±5% mmHg average error standard deviation: <8 mmHg

deviation: ≤8 mmHg Unit: mmHg, KPa Measurement mode manual: Auto, STAT Intervals for AUTO measurement time: 1,2,3,4,5,10,15,30,60,90 minutes; 2,4,8,12

STAT mode cycle time: keep 5 minutes, at 5

seconds interval
Overpressure protection: hardware and software
double protections
Pulse rate range: 40~240bpm
SpO2 Digital technic
Measurement range: 0~100%
Resolution: 1%
Accuracy: at 70~100%, ±2%; at 40~69%, ±3%;
at 0~39% unspecified
PR

Measurement range: 25~254 bpm

Resolution: 1 bpm Accuracy: ±1% or ±1% bpm, whichever is greater

greater
Masimo SpO2 (option)
Measurement range: 0~100%

Resolution: 1% Accuracy: at 70~100%, ±2% (adult/pediatric,

Accuracy: at 70~100%, ±2% (adult/pediatric, non motion condition); at 70~100%, ±3% (neonate, non motion condition); at 70~100%, ±3% (motion condition); at 0~69% unspecified
Average time: 2-4s, 4-6s, 8s, 10s, 12s, 14s, 16s PR

PR
Measurement range: 25~240 bpm
Resolution: 1 bpm
Accuracy: ±3 bpm (non-motion condition);
±5 bpm (motion condition)
Nellcor SpO2 (option)
Measurement range: 0~100%
Resolution: 1%
Accuracy: at 70~100%, ±2% (Adult/Pediatric);
At 70~100%, ±3% (Neonate);
At 0~69% unspecified
PR
Measurement range: 20~300 bpm
Resolution: 1 bpm

Resolution: 1 bpm Accuracy: 20 bpm to 250 bpm, ±3 bpm; 251 bpm to 300 bpm unspecified

251 bpm to 300 bpm unspecified IBP (Option)
Max channel: 8
Measurement way: directly invasive pressure Sensitivity of transducer: 5uV/V/ mmHg ±2 Impedance of transducer: 300 to 3000 Ω
Measurement range: -50~350 mmHg
Resolution: 1 mmHg
Unit: mmHg, kPa, cmH2O
Accuracy:

Office infilings, sea, climicol Accuracy: Static: ± 1mmHg or ±2%, whichever is greater (exclusive of transducer) ± 4mmHg or ±4%, whichever is greater (inclu-

sive of transducer)

sive of transducer)
Dynamic: ± 4mmHg or 4% whichever is greater Transducer sites: Arterial pressure (ART);
Pulmonary artery pressure (PA); Left atrium pressure (LAP); Right atrium pressure (RAP);
Central venous pressure (CVP); Intracranial pressure (ICP); P1/P2
Selection of measurement range:

Central venous pressure (CVP); Intracranial pressure (ICP); P1/P2
Selection of measurement range:
ART: 0 ~ +350mmHg
PA: -10 ~ +120mmHg
CVP,RAP/LAP/ICP: -10 ~ +40 mmHg
P1/P2: -50 ~ +350mmHg
EtCo2 Mainstream (Option)
Measure method: infrared spectrum
Warm up time: Capnogram displayed in less than 15 seconds. At an ambient temperature of 25°C, full specification within 2 minutes.
Measurement range: 0~19.7% (0~150 mmHg)
Resolution: 1 mmHg
Rise time: (10l/mm): ≤60 ms
Unit: %, mmHg, kPa
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
(at 760mmHg, ambient temperature of 35°C) awRR measurement range: 0~150 rpm
awRR measurement accuracy: ±1 rpm
EtCo2 Sidestream (Option)
Measurement tange: 0~150 f mmHg)
Measurement ange: 0~10~13 1% (0~99.6 mmHg)

EtCo2 Sidestream (Option)
Measure method: infrared spectrum
Measurement range: 0.0~13.1% (0~99.6 mmHg)
Resolution: 1mmHg
Unit: %, mmHg, kPa
Accuracy: 0% to 4.9%, ±0.3%(±2.0mmHg)
5.0% to 13.1%, < ±10% of the reading
Measurement range of awRR: 3~150 rpm
Calibration: offeet calibration: auto manual_gain Calibration: offset calibration: auto, manual, gain

EtCO2 Microstream (Option) Measure method: infrared spec

Warm up time: Capnogram displayed in less than 20 seconds. At an ambient temperature of 25°C, full specification within 2 minutes. Measurement range: 0~19.7% (0~150 mmHg) Resolution: 1 mmHg Unit: %, mmHg, kPa CO2 Accuray: 0 – 40 mmHg, ±2 mmHg; 41 – 70 mmHg, ±5% of reading; 71 – 100 mmHg, ±8% of reading; 101 – 150 mmHg, ±10% of reading; 101 – 150 mmHg, ±10% of reading; 101 – 150 mmHg, ±10% of reading; 102 – 150 mmHg, ±2 mmHg; 105 mmHg, ambient temperature of 25°C) (when RR-80 rpm, all the range is ±12% of reading) CO2 response time: <3s awaRR measurement range: 2~150 rpm awRR measurement accuracy: ±1 rpm Sample flow rate: 50ml/min ± 10 ml/min Anesthetic Gas (option)
Measure method: infrared spectrum Measure mode: mainstream or sidestream Fi and Et values: CO2, N2O, O2, AG (HAL, ISO, ENF, SEV, DES)

Resolution: 1% Unit: %

Rise time: (flowing speed 10l/min) CO2 ≤ 90ms;
O2 ≤ 300ms;N2O ≤ 300ms;
HAL, ISO, ENF SEV, DES ≤ 300ms
Total system response time: <1 seconds
C.O. (Option)
Measurement mode: thermal dilution method
Measurement Wave: thermal dilution curve
Measurement parameters: C.O., TB, TI, C.I.
Measurement range: C.O.: 0.1 L/min ~ 20 L/
min

Measurement and min TB: 23.0 ~ 43.0°C TI: -1.0 ~ 27.0°C Resolution: C.O.: 0.1 L/min; TB: 0.1°C; TI: 0.1°C Accuracy: C.O. 2% 5D; TB. TI: ±0.1°C TB Alarm range: 23.0 ~ 43.0°C, high/low limit can be adjusted continuously.

STANDARD CONFIGURATION

+ Main Unit: -PG S70: 15" TFT-LCD display -3 standard module slot

-3 standard module slot
-Touch screen
-1 Rj45 enthernet socket
-1 defibrillation output
-1 Nurse call socket
-2 USB 1.1 port
-USB compatible mouse and keyboard
-11.1V/4.0AH Rechargeable Lithium battery
-Other options: external Display, Wireless Lan,
Extensive Memory card, Analog output (ECG or IBP), 3 channel thermal recorder, rolling stand,
wall mount wall mount

OPTIONS

OPTIONS
-12 leads ECG Module
-Temp Module
-Spo2 Module
-Sipo2 Module
-etCo2 Module sidestream, mainstream or microstream

AG Module C.O. Module



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