

STERNMED



Macs 30

Multi parameter patient monitor



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STERNMED®



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Multi parameter patient monitor

The Macs 30 is a multi parameter monitor offering a variety of applications. It can be used to measure and monitor parameters of SpO₂, NIBP, Pulse, TEMP, ECG and RESP.

Optional mainstream, sidestream EtCO₂ and 1 or 2-Channel IBP monitoring functions are also available.

FEATURES



- 15" high resolution color TFT screen
- 5 or 9 channel waveform display with trend coexistence, switchable to large font
- Monitoring standard parameters of ECG, SPO₂, RESP, NIBP, TEMP & pulse
- Automatic analysis of 20 arrhythmia waveforms
- S-T segment with automatic & manual analysis
- Digital SpO₂ technology with anti-motion & anti-low infusion
- Trend data analysis for 8/24/120 hours
- Storage & review 500 groups of data & 24-hour ECG waveforms
- Protection against interference from defibrillator & electrosurgical unit
- Feasible to be used with cardiac pacemaker together
- Optimized modes for adult, child & neonate
- Removable and rechargeable battery

OPTIONS



- Built-In thermal printer
- 1-Channel IBP
- 2-Channel IBP
- Nellcor compatible SpO₂
- Touch screen
- NIBP Neonate cuff
- SpO₂ Neonate Sensor
- NIBP Child cuff
- SpO₂ Child Sensor
- Rectal Temperature probe
- Monitor Trolley
- Respironic EtCO₂
- Wall mounting rack
- Multigas without O₂



TECHNICAL SPECIFICATIONS

Macs 30 | SternMed Multi parameter patient monitor

ECG

ECG Amplifier Bandwidth		Monitoring mode:0.5-40Hz Diagnosis mode:0.05_75Hz
CMRR		>80dB
Heart Rate	Range	15-350bpm
	Accuracy	+2bpm
ECG Gain	1/2	5mm/mV+5%
	1	10mm/mV+5%
	2	20mm/mV+5%
	Auto	Auto gain control
Load Selection		GND; Standard I,II,III; aVR, aVL, aVF, chest V1-V8
ECG Sweeping Speed		12.5mm/s, 25mm/s, 50mm/s
Alarm Setting		Customized upper & lower limits & auto saved

SPO₂

Display		SpO ₂ value & waveform pulse rate & histogram
Resolution of SpO ₂		+1%
Accuracy of SpO ₂		+2%(75-99%)
		+3%(50-75%)
Measurement Range of Pulse Rate		30-240 bpm
Accuracy of Pulse Rate		+2bpm
Alarm Setting		Customized upper & lower limits & auto saved

RESP

Measurement Method		Thoracic Impedance
Measurement Range		0-100 bpm
Accuracy		±5%
Alarm Setting		Customized upper & lower limits & auto saved

TEMP

Range		28.0-45.0°C
Accuracy		+0.2°C
Alarm		Customized upper & lower limits & auto saved

NIBP

Measurement Method		Intelligent Oscillometric method	
Parameters		Manual, automatic & STAT (5minutes)	
Working Modes		mmHg/kPa selectable	
Unit Display		0-300 mmHg	
Cuff Pressure Range		Adult (standard)	
		Child/neonate (optional)	
Automatic Measuring Time		1-240 minutes	
Inflation Time		<10s (typical adult cuff)	
Deflation Time		<2s (typical adult cuff)	
Monitoring Range	Adult/Child	Systolic	25-265mmHg
		Diastolic	12-220mmHg
		Mean	18-245mmHg
	Neonate	Systolic	25-135mmHg
		Diastolic	12-110mmHg
		Mean	18-120mmHg
Alarm Setting		Customized upper & lower limits & auto saved	

GENERAL SPECIFICATIONS

Standard Configuration		ECG, HR, RESP, NIBP, SpO ₂ , PR, TEMP, Battery
Power		100-250VAC, 50/60Hz
Power Consumption		< 80VA
Display		TFT Color LCD (15")
Alarm		Audible & Visual
Networking		RJ45
Battery		Rechargeable lead-acid battery
Service Life		> 2 hours
Safety Standard		EN IEC60601-1



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