



ESM-900A

Patient monitor



INTENSIVE CARES



ESM-900A

Patient Monitor



- 15" color TFT display, high resolution 1024x768 dpi.
- Sweep speed: 12.5 mm/s, 25mm/s, 50 mm/s
- Indicator: Power/battery indicator light
- Battery: Rechargeable lead acid cell, 12v/4AH
Max. 24H charging, 4H continue working.
- Alarm: adjustable High, Medium and Low
- Networking: Connected to CMS
- TCP/IP netting platform
- Trend: Parameters graphic and tabular trends:
5 s/piece, 8 hours
1 min/piece, 168 hours (24 hour x 7 days)
5 min/piece, 1000 hours
- Storage: NiBP: 1000 groups
Alarm: 200 groups
Full disclosure waveforms: 1 hour

Standard parameters:

5-lead ECG, SpO₂, NIBP, RESP, TEMP

ECG

Lead mode: 5-lead(R,L,F,N,C)
Lead selection: I,II,III,avR,avL,avF,V
Waveform: 3 and 7 channels selectable
Gain selection: 0.5mm/mv, 1mm/mv, 2mm/mv
Sweep speed: 12.5mm/s; 25mm/s; 50mm/s
Heart rate range: Adult: 15-300bpm;
Neonate/pediatric:15-350bpm
Accuracy: +1bpm or +1%, whichever is greater
Resolution: 1bpm
Filter: Surgery mode:1-20Hz
Monitor mode: 0.5~40Hz
Diagnostic mode: 0.05~130Hz
Scaling signal: 1mv, +3%
Protection: withstand 4000VAC/50 voltage
isolation against electrosurgical
interference and defibrillation
Alarm range: 15-350bpm
S-T segment detecton:
Measurement range: 2.0mV~+2.0mV
Alarm Range: -2.0mV~+2.0mV
Accuracy: -0.8mV~+0.8mV
Error: +0.02Mv
Arrhythmia analysis: YES

SPO₂

Measurement range: 0~100%
Resolution: 1%
Accuracy: +2%(70~100%); 0-69% unspecified
Alarm range 0~100%
Pulse Rate: range:20~300bpm
Resolution:1bpm
Error:+1bpm or +2%, whichever is greater

NIBP

Method: Digital Automatic oscillometric
Operation mode: Manual/Automatic/continuous
Auto measurement time: Adjustable(1~480min)
Measurement Unit: mmHg/Kpa selectable
Measurement types: Systolic, Diastolic, Mean
Measurement range:
Systolic pressure: Adult: 40~270mmHg
Pediatric: 40~220mmHg
Neonate: 40~135mmHg
Mean pressure: Adult: 20~235mmHg
Pediatric: 20~165mmHg
Neonate: 20~110mmHg
Diastolic pressure: Adult: 10~215mmHg
Pediatric: 10~150mmHg
Neonate :10~100mmHg
Over-pressure protection: Double safety protection
Resolution: 1 mmHg
Alarm: Systolic, Diastolic, Mean

RESPIRATION

Method: Thoracic impedance
Measurement range: Adult:7-120rpm;
Neonate/Pediatric:7-150rpm
Apnea alarm: YES, 10~40s
Resolution: 1rpm
Accuracy: +2rpm

TEMP

Compatible probe: YSI or CYF
Measurement range: 5~50°C
Resolution: 0.1°C
Accuracy: +0.1°C
Refreshing time: about 1s
Average measuring time: <10s

Optional Parameters

IBP (invasive blood pressure):
Channel: 2 channels
Eange: 50-300mmHg
Resolution: 1mmHg
Accuracy: ±4mmHg (±4%)
Unit: mmHg, kPa
Converter Sensitivity: 5mV/V/mmHg
Transducer sites:
Arterial Pressure(ART)
Pulmonary Artery Pressure(PA)
Central Venous Pressure(CVP)
Left Atrium Pressure(LAP)
Right Atrium Pressure (RAP)
Intracranial Pressure (ICP)
EtCO₂ (Sidestream CO₂)
Measurement range: 0~99mmHg
Accuracy: +2mmHg (0~40mmHg)
Sampling range: 100ml/min
Sampling rate accuracy: 15%
Respiration rate: 0~120rpm
Respiration accuracy: +2rpm (0~70rpm)
+5rpm (>70rpm)
Respiration time: <240msec (10% to 90%)
Delay time: <2s



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