



ESM-800A

Multi-parameter patient monitor



INTENSIVE CARES



ESM-800A

Features

- 12.1 inch, 800x600 dpi, col or TFT display;
- Separated Alarm and beep sound setting;
- Separated module: Main board + Parameter module (ECG, NIBP, SpO2);
- Display brightness adjustable;
- Real time S-T segment analysis, and ARR analysis;
- SpO2 Pitch Tone Variation and Drug Dose Calculation;
- Parameter waveform and characters color selectable
- Multi-display: Standard, Large font, Trend Coaxis, OxyCRG dynamic
- Standby mode for power saving and suspend monitoring;
- 7-lead ECG waveforms display in phase;
- Capture dynamic waveforms and history waveforms review;
- VGA output;
- Built-in rechargeable lithium battery 4 hours, and battery volume checking.
- Efficient resistance to interference of defibrillator and HF knife;
- SO card memory and USB data output;
- TCP/IP networking platform enable abundant future upgrade & CMS
- Complete and flexible mounting solution for transportation and in-patient monitoring

Standard parameters:

5-lead ECG, SpO2, NI BP, RESP, TEMP, HR ;

Optional:

Touch Screen, Printer, 3/12 lead ECG, SD card, VGA output, 2 IBP, EtCO2, AG module, Masimo/Nellcor SpO2, Wall mount, Trolley.

Specifications

ECG:	Adult: 1-215mmHg	Plethysmogram waveform: 2 channels
Lead mode: 5-lead (R, L, F, N, C)	Pediatric: 10-150mmHg	Record mode: manual, on alarm, time-defined
Lead selection: I, II, III, avR, avL, avF, V	Neonate: 10-100mmHg	Recording width: 50mm
Waveform, 3 and 7 channel selectable	Over-pressure protection	Printing speed: 50mm/s
Gain selection: 0.5 mm/mv, 1 mm/mv, 2 mm/mv	Double safety protection	Recording type: Frozen Waveform record
Sweep speed: 12.5mm/s; 25mm/s; 50mm/s	Resolution: 1 mmHg	NIBP recall record
Heart rate range:	Alarm: Systolic, Diastolic, Mean	Trend table record
Adult: 15~300bpm;	IBP (Optional)	Alarm record
Neonate/Pediatric: 15~350bpm	IBP Waveform: 2-Channel	Fixed-time record
Accuracy: +1 bpm or +1%, whichever is greater	Max 8 channels	
Resolution: 1bpm	Measurement Range: -50~350mmHg	
Filter: surgery mode: 1~20Hz	Resolution: 1mmHg;	
monitor model: 0.5~40Hz	Unit: mmHg, kPa	
Diagnostic mode: 0.05~130Hz	Accuracy;	
Scaling signal: 1mv, +3 %	Static: ±1mmHg or 2%, whichever is greater	
Protection: withstand 4000VAC/ 50 voltage isolation	{exclusive of transducer}	
against electrosurgical interference and defibrillation	Dynamic: ±4mmHg or 4%, whichever is greater	
Alarm range: 15~350bpm	Sensitivity of transducer: 5 uV /V /mmHg, 12%	
SPO2	Impedance of transducer: 300~3000 Ohm	
Measurement range: 0~100%	Transducer sites:	
Resolution: 1%	ART, PA, LAP, RAP, CVP, ICP, PI, P2	
Accuracy: +2% (70-100%); 0-69% unspecified	Selection of measurement range:	
Alarm range: 0~100%	ART: 0 ~ +350mmHg	
Pulse Rate: range: 20~300bpm	PA: -10 ~ +120mmHg	
Resolution: 1bpm	CVP/RAP/LAP/ICP: -10 ~ +40mmHg	
Error: + 1bpm or +2%, whichever is greater	PI/P2: -50 ~ +360mmHg	
RESP:	EtCO2 (Sidestream CO2 Optional)	
Method: Thoracic Impedance	Measurement range: 0~99mmHg	
Measurement range: Adult 2~120rpm;	Accuracy; +1mmHg (0~40mmHg)	
Neonate /Pediatric: 7~150rpm	Sampling Range: 100ml/min	
Apnea alarm: YES 10~40s	Sampling rate accuracy: 15%	
Resolution: 1rpm	Respiration rate: 0~120rpm	
Accuracy: +2rpm	Respiration accuracy: +2rpm (0~70rpm)	
TEMP:	+5rpm (> 70rpm)	
Compatible probe: YSI or CYF	Respiration time: 240msec (10% to 90%)	
Measurement range: 5~50°C	Delay time: <2s	
Resolution: 0.1 °C	EtCO2 (Mainstream CO2, Optional)	
Accuracy: +0.1°C	Method Infrared Spectrum	
Refreshing time: about 1	Range: 0.0-10% (0-76%)	
Average measuring time: <10s	Resolution: 1mmHg (0.1%)	
NIPB:	Accuracy: <5% (±4.0 mmHg)	
Method Digital Automatic oscillometric	Or <10% (of Readings)	
Operation mode: Manual/Automatic/continuous	Suntech (Suntech):	
Auto measurement time: Adjustable (1-480min)	Technique: Oscillometric	
Measurement Unit: mmHg/Kpa selectable	Patient Applications: Adult Pediatric, Neonate	
Measurement types: Systolic, Diastolic, Mean	Systolic Range: 40-265mmHg	
Measurement range:	Diastolic Range: 20-100mmHg	
Range of Systolic pressure:	MAP Range: 27-222mmHg	
Adult: 40-270mmHg	Pulse range: 25-300BPM	
Pediatric: 4-220mmHg	Transducer Accuracy: ±3mmHg up to full range	
Neonate: 4-135mmHg	Operation Conditions	
Range of mean pressure:	0°C to 50°C, 15% to 95% non-condensing RH	
Adult: 2-235mmHg	Storage Conditions.	
Pediatric: 2-165mmHg	-20°C to 65°C, 15% to 95% non-condensing RH	
Neonate: 20-110mmHg	Recorder (Optional)	
Range of diastolic pressure:	Build-In, thermal array	



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