

Multi-parameter Module MMP12

It is used to monitor the patient's blood oxygen, blood pressure, electrocardiogram, respiration, body temperature, heart rate, and pulse



Dimension : 140 mm × 85 mm × 25 mm



Features

- > With pulse oxygen and pulse rate monitoring function
- > With monitoring function of systolic blood pressure, diastolic blood pressure and mean pressure
- > With 12-lead ECG, 3/5-lead ECG, 1 breathing, 2 body temperature monitoring functions
- > Provide three patient modes: adult, child and newborn mode
- > The module thickness is only 25mm, exquisite and compact
- > Design of integrated blood pressure airway system
- > The working status of the real-time transmission module: hardware status, software status and sensor status, the upper computer can alarm in time according to the information
- > When the perfusion index is as low as 0.075%, the blood oxygen monitoring is accurate and reliable, meeting the application of surgery and ICU
- > Both blood oxygen and blood pressure adopt advanced algorithms, with anti-motion interference and weak signal measurement performance
- > Blood pressure measurement has three modes: manual, automatic and continuous mode
- > Blood pressure measurement has hardware and software dual overvoltage protection functions
- > Double timeout protection for blood pressure measurement (module timeout protection, provide timing trigger port of host computer)
- > The measurement results of the ECG measurement part include heart rate, body temperature, respiration and ST segment off set values of I, II, and V1 channels
- > ECG measurement has diagnosis, monitoring, HARDEST and surgery modes
- > ECG diagnostic analysis results include arrhythmia, conduction block, myocardial infarction, STT changes, ventricular hypertrophy, atrial enlargement, electrical axis deviation and other heart diseases

Specifications

ECG		RR	
Range	0.15Mv-5.5mV	Range	0~120rpm
Accuracy	Undefined	Accuracy	15-120rpm: ±2rpm or ±2%; Undefined(<15rpm)
Resolution	2.36uV/LSB	Base resistance	500-2000Ω
lead type	3 Lead:I or II or III 5Lead:I ,II,III,AVR,AVL,AVF,V1 12lead: I ,II,III,AVR,AVL,AVF,V1,V2,V3,V4,V5,V6	Variable resistance	0.2-3.0Ω

HR		SPO2	
Range	adult: 15~300bpm Child/Newborn: 15~350bpm	Range	0~100%
Accuracy	±1bpm	Accuracy	±2%(70%~100%)Undefined(0~69%)
Resolution	1bpm	Resolution	1%

NIBP		PR	
Pressure Range	0-300mmHg	Range	25~250bpm
Pressure Accuracy	±2mmHg or ±1% (Whichever is greater)	Accuracy	±3bpm
Resolution	1mmHg	Resolution	1bpm
Systolic Range	Adult : 40~270mmHg Pediatric : 40~200mmHg Neonate : 40~130mmHg	PI	
Distolic Range	Adult : 10~210mmHg Pediatric:10~162mmHg Neonate:10~90mmHg	Range	0~20%
Mean Range	Adult : 20~130mmHg Pediatric : 20~170mmHg Neonate : 20~100mmHg	Accuracy	Undefined
Accuracy	The mean deviation<±5mmHg The standard deviation<8mmHg	Resolution	0.001%

TEMP	
Range	0-50°C
Accuracy	±0.1°C
Resolution	0.1°C

Electrical Specifications

Power supply	DC.12V±5%
Power consumption	≤6W
Communication	TTL,USART
Temperature	Operating 10°C~ 40°C (50°F ~ 104°F) Storage -20°C~ 70°C (4°F ~ 158°F)

Compliance

Standard	IEC 60601-2-25-2011 EN1060-3-1997	IEC 60601-2-30-1996-A1:1999 ISO 80601-2-61:2011	EN 1060-1-1995 AAMI EC57-2012
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