

Multi-parameter Module MMP3D

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



Dimension : 140mm×85mm×25mm



Features

- > With pulse oxygen, pulse rate monitoring function.
- > With monitoring function of systolic blood pressure, diastolic blood pressure and mean pressure.
- > With 3/5 lead ECG, 1 breathing, 2 body temperature monitoring functions.
- > Provide three patient modes: adult, child and newborn mode.
- > Module thickness is only 25mm, exquisite and compact.
- > Integrated blood pressure gas circuit system design, no need for tracheal connection.
- > 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, ST segment offset values of I, II, and V1 channels, and arrhythmia results.
- > ECG measurement has diagnosis, monitoring, HARDEST and surgery modes.
- > Has 18 arrhythmia analysis functions.

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	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	±2bpm or ±2(Whichever is greater)
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 : 20~230mmHg 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
----------	--------------------------------------	--	----------------------------------