M3B

Patient Monitor

Version 1.1

Main Unit Specification

Physical Specifications

Dimension	(174±2) mm(W) ×(235±2) mm(H)×(189±2) mm(D)
Weight	≤3.5 kg (not including battery)

Power Supply

Power Supply	100 V to 240 V~, 50 Hz/60 Hz
Pmax	70 VA

Battery

Battery Type	Rechargeable lithium-ion battery	
Capacitance	2500 mAh, 5000 mAh	
Typical Working Period	2500 mAh	7 h
	5000 mAh	14 h
Maximum Rechargeable Period	2500 mAh	3.5 h
	5000 mAh	7 h

Display

Display screen	5.6-inch LCD
Resolution	640×480

Data Storage

Trend List	72 h, 1 min. resolution
Alarm List	800 groups

Recorder

Record Width	48 mm
Paper Speed	12.5 mm/s, 25 mm/s
Recording types	Current displayed parameter list recording Current displayed alarm list recording Real-time 8s waveform recording Recording of all the parameter of current patient ID

Interfaces and others

USB Port	1
Network Interface	1
Nurse Call	RJ-45 network interface
Wireless Network	Wi-Fi

EDAN Module SpO_2

Measuring Range	0% to 100%
Resolution	1%
Data update period	1 s
Accuracy	Adult/Pediatric: ±2% (70% to 100% SpO_2) Undefined (0% to 69% SpO_2) Neonatal: ±3% (70% to 100% SpO_2) Undefined (0% to 69% SpO_2)

PI (Perfusion Index)

Measuring Range	0-10
Resolution	1

Nellcor Module SpO_2

Measuring Range	1% ~ 100%
Resolution	1%
Data update period	1s
Accuracy	
DS-100A, OXI-A/N(Adult)	±3% (70% ~100% SpO_2)
OXI-A/N(Neonate)	±4% (70% ~ 100% SpO_2)

PR

PR (SpO_2)

Measuring range	**EDAN: 25 bpm to 300 bpm** **Nellcor: 0 bpm to 300 bpm**
Accuracy	**EDAN: ±2 bpm** **Nellcor: ±3 bpm (20 bpm to 250 bpm)**
Resolution	**EDAN: 1 bpm** **Nellcor: 1 bpm**

PR (NIBP)

Measuring range	**EDAN: 40 bpm to 240 bpm**
Accuracy	**±3 bpm or 3.5%, whichever is greater**
Resolution	**1 bpm**

CO_2

Applicable Patient Type	Adult, pediatric and neonatal patients
Technique	Infra-red Absorption Technique
Unit	mmHg, %, Kpa
Measuring Range	
$EtCO_2$	0 mmHg ~ 150 mmHg
$FiCO_2$	3 mmHg ~ 50 mmHg
AwRR	0 rpm ~ 150 rpm (Mainstream) 2 rpm ~ 150 rpm (Sidestream)
Resolution	
$EtCO_2$	1 mmHg
$FiCO_2$	1 mmHg
AwRR	1 rpm

EDAN

$EtCO_2$ Accuracy	±2 mmHg, 0 to 40 mmHg ±5% of reading, (41 ~ 70) mmHg ±8% of reading, (71 ~ 100) mmHg ±10% of reading, (101 ~ 150) mmHg ±12% of reading, RR is over 80 rpm (Sidestream) There will be no degradation in performance due to Respiration Rate. (mainstream)
AwRR Accuracy	±1 rpm
Sample Gas Flowrate	50 ±10 ml/min
CO_2 Rise Time / Response Time (Mainstream)	< 60 ms
Sensor Response time (Sidestream)	<3s (including transport time and rise time)
Barometric pressure compensation	User setup
Apnea Alarm Delay	10 s, 15 s, 20 s (Default), 25 s, 30 s, 35 s, 40 s, 45 s

Safety Specifications

Compliant with Standards	IEC 60601-1: 2005+A1:2012; IEC 60601-1-2:2014; EN 60601-1: 2006+A1:2013; EN 60601-1-2: 2015; ISO 80601-2-61: 2011; ISO 80601-2-55: 2011; IEC 60601-2-49: 2011
Anti-electroshock Type	Class I equipment and internal powered equipment
Anti-electroshock Degree	BF: SpO_2, CO_2
Ingress Protection	IPX1

Environmental Specifications

Temperature	Working: +0°C to +40°C (32ºF ~ 104ºF) Transport and Storage: -20°C to +55°C (-4ºF ~ 131ºF)
Humidity	Working: 15%RH to 95%RH (non-condensing) Transport and Storage: 15%RH to 95%RH (non-condensing)
Altitude	Working: 86 kPa to 106 kPa Transport and Storage: 70 kPa to 106 kPa