M3B

Patient Monitor

Version 1.1

Main Unit Specification

(174±2) mm(W) ×(235±2) mm(H)×(189±2) mm(D)

 \leq 3.5 kg (not including battery)

100 V to 240 V~, 50 Hz/60 Hz

Physical Specifications

Dimension

Weight

Power Supply

Power Supply Pmax

Battery

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

70 VA

Display

Display screen5.6-inch LCDResolution640×480

Data Storage

Trend List Alarm List

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 |

72 h, 1 min. resolution

800 groups

Interfaces and others

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

EDAN Module SpO₂

| Measuring Range | 0% to 100% |
|-----------------------|---|
| Resolution | 1% |
| Data update period | 1 s |
| Accuracy | Adult/Pediatric: $\pm 2\%$ (70% to 100% SpO_2) |



Undefined (0% to 69% SpO_2) Neonatal: $\pm 3\%$ (70% to 100% SpO_2) Undefined (0% to 69% SpO_2)

PI (Perfusion Index)

| Measuring Range | 0-10 |
|-----------------|------|
| Resolution | 1 |

Nellcor Module SpO₂

| Measuring Range | $1\% \sim 100\%$ |
|-----------------------------|------------------------------------|
| 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 rangeEAccuracy±Resolution1

EDAN: 40 bpm to 240 bpm ±3 bpm or 3.5%, whichever is greater 1 bpm

CO₂

Applicable Patient Adult, pediatric and neonatal patients Type Technique Infra-red Absorption Technique Unit mmHg, %, Kpa **Measuring Range** EtCO₂ $0 \text{ mmHg} \sim 150 \text{ mmHg}$ FiCO₂ $3 \text{ mmHg} \sim 50 \text{ mmHg}$ 0 rpm ~ 150 rpm (Mainstream) AwRR 2 rpm ~ 150 rpm (Sidestream) Resolution EtCO₂ 1 mmHg FiCO₂ 1 mmHg AwRR 1 rpm



| EtCO ₂ Accuracy | ±2 mmHg, 0 to 40 mmHg |
|--|---|
| | $\pm 5\%$ of reading, (41 ~ 70) mmHg |
| | $\pm 8\%$ of reading, (71 $\sim 100)~\rm mmHg$ |
| | $\pm 10\%$ of reading, (101 $\sim 150)~mmHg$ |
| | $\pm 12\%$ 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 | User setup |
| compensation | |
| 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: $+0^{\circ}$ C to $+40^{\circ}$ C (32° F ~ 104° F) |
|-------------|--|
| | Transport and Storage: -20°C to +55°C (-4°F \sim 131°F) |
| | Working: 15%RH to 95%RH (non-condensing) |
| Humidity | 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 |



