

M3 Series

Vital Signs Monitors



M3 (SpO₂ + NIBP):

EDAN M3 Vital Signs Monitor has made its mark in out-patient department and doctors' office for its accuracy, durability and cost-effectiveness by SpO₂ and NIBP monitoring. Its affordable price and multi-parameter functionality can address vital signs needs.

M3B (SpO₂ + CO₂):

With SpO₂ (Nellcor optional) and Respiration CO₂ highly advanced monitoring technologies, EDAN M3B ensures effective capnography monitoring for intubated and non-intubated patients for continuous long-term monitoring. It is tailored for mechanically ventilated and non-intubated patients.

- 5.7 inch LCD display
- Backlight control and standby mode for power saving
- Display numeric and waveform information simultaneously
- Nurse call
- Network capability
- Powerful storage capacity
- Built-in Lithium Polymer Battery for 4 hours working
- External 12V DC power input
- Suitable for adult, pediatric and neonate patients



Respiration LOFLO™ Sidestream CO₂ measurement for intubated and non-intubated patients (M3B)



CO₂/SpO₂ monitoring of M3B: M3B provides powerful storage capacity: 72 hours trend review of all parameters, 2.5 hours SpO₂ and CO₂ waveforms storage and 800 items alarm review.



NIBP/SpO₂ monitoring of M3: M3 provides powerful storage capacity: 72 hours trend review of all parameters, 5 hours SpO₂ waveforms storage, 30,000 sets NIBP review and 800 items alarm review.



Wall Mount and Rolling Stand (M3 and M3B)



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M3 Series

Vital Signs Monitors



Classification

Anti-electroshock type Class I equipment
and internal powered equipment
EMC type Class A
Anti-electroshock degree SpO₂, NIBP, CO₂ (BF)
Harmful liquid proof degree Ordinary equipment
(sealed equipment without liquid proof)

Specifications

Size and Weight

Size 173.5 (L) x241 (H) x189 (D) mm
Weight 3 kg

Display

5.7 inch LCD

Battery

Type: Lithium Polymer
Voltage: 7.4 V DC
Capacitance: 4000 mAh

Recorder (Optional)

Record Width 48 mm
Paper Speed 25mm/s

NIBP (M3 only)

Method Oscillometric
Mode Manual, Auto, Continuous
Measuring Interval in AUTO Mode
1/2/3/4/5/10/15/30/60/90/120/240/480 Min
Continuous 5min, interval is 5s
Measuring Type Systolic Pressure,
Diastolic Pressure, Mean Pressure

Measuring Rang

Adult Mode

SYS 30~270mmHg
DIA 10~220mmHg
MAP 20~235mmHg

Pediatric Mode

SYS 30~235mmHg
DIA 10~220mmHg
MAP 20~225mmHg

Neonatal Mode

SYS 30~135mmHg
DIA 10~110mmHg
MAP 20~125mmHg

Cuff Pressure measuring Range 0~280mmHg

Pressure Resolution 1mmHg

Pressure Accuracy

Mean error ±5mmHg
Maximum Standard deviation ≤8mmHg
Entire Measuring Period 20~45s typical

(depend on HR/motion disturbance)

Overvoltage protection

Dual Overvoltage protection

Adult 297±3mmHg

Pediatric 240±3mmHg

Neonatal 145±3mmHg

SpO₂ (M3 and M3B)

Measuring Range 0 ~ 100 %

Alarm Range 0 ~ 100 %

Resolution 1 %

Accuracy

Adult (including Pediatric)

±2 digits (70%~100% SpO₂)

Undefined (0~70% SpO₂)

Neonate ±3 digits (70%~100% SpO₂)

Undefined (0~70% SpO₂)

Pulse Rate

Measuring and Alarm Range 15 ~ 254 bpm

Resolution 1 bpm

Accuracy ± 3bpm

Under Motion Condition, ±5 bpm

Anti-low-perfusion Strong Anti-low-perfusion

Anti-motion Interference

Strong Anti-motion Interference,

Anti-electrotome

Nellcor module (optional)

Measuring Range 1 ~ 100 %

Alarm Range 1 ~ 100 %

Resolution 1 %

Accuracy

Adult and Low-perfusion

±2 digits (70%~100% SpO₂)

Undefined (0~70% SpO₂)

Neonate ±3 digits (70%~100% SpO₂)

Undefined (0~70% SpO₂)

Pulse Rate

Measuring and Alarm Range 20~250bpm

Resolution 1bpm

Accuracy ±3 bpm

Low Perfusion 0.03 % ~ 20 %

Respironics CO₂ (M3B only)

Method Infra-red Absorption Technique

Measuring mode Sidestream

Measuring range

CO₂ 0 ~ 99 mmHg

INSCO₂ 0 ~ 99mmHg

AwRR 0 ~ 150 rpm

Resolution

CO₂ 1 mmHg

INSCO₂ 1mmHg

AwRR 1 rpm

Accuracy

CO₂ ± 2 mmHg, 0 ~ 40 mmHg

Reading ± 8%, 41 ~ 76 mmHg

Reading ±10%, 77 ~ 99 mmHg

AwRR ± 2 rpm

Alarm range

CO₂ ADU 15 ~ 50 mmHg

PED 20 ~ 50 mmHg

NEO 30 ~ 45 mmHg

InsCO₂ ALM HI 4 mmHg

AwRR ADU 8 ~ 30 rpm

PED 8 ~ 30 rpm

NEO 30 ~ 100 rpm

Suffocation Alarm Delay

AwRR 10 ~ 40 seconds

Response time <3 seconds, includes

transport time, risetime

Calculation Method BTPS

(Body Temperature Pressure Saturated)

Stability

Short Term Drift: Drift over four hours shall

not exceed 0.8 mmHg maximum.

Long Term Drift: Accuracy specification will

be maintained over a 120 hour period.

O₂ Compensation

Range 0 to 100%

Resolution 1%

Default 16%

N₂O Compensation

Range 0 (off) or 1 (on)

Default Off

Configuration

Type	SpO ₂	NIBP	CO ₂	Recorder	Rolling Stand	Wall Mount
M3	Yes	Yes	No	Optional	Optional	Optional
M3B	Yes	No	Yes	Optional	Optional	Optional

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