



Patient Monitor



EF-05-PMB8S

Medical IEC 60601 and EMC
Testing Approved
OEM & SKD Accepted

TECHNICAL SPECIFICATION

EF-05-PMB8S



- 8 inch TFT screen, 6 standard parameters
- Unique Keyboard - free design
- 32-levels sound volume adjustment
- 20-levels brightness adjustment
- Maximum 168 hours graphic and tabular trends of all parameters;
- Battery capacity about 5 hours continual working time
- Maximum 20 hours continual working time (optional)
- 6 hours continual working time
- Touch screen (optional)
- EtCO2 module (optional)
- 8-language available (optional)
- Center Monitoring System (optional)

Package Information

Standard Accessories:

5-lead ECG cable, SpO2 snsr, BP cuff, Temperature probe, Lithium battery, User manual, Power adaptor

Optional Accessories:

Aluminum Trolley, Wall mount stand, metal handle

Monitor Size: 210 x183 x 90mm

Carton Size: 235 x 290 x 255mm

G.W.: 3.0kg **N.W.:** 2.5kg

Standard Configuration: ECG, SPO2, NIBP,
Temp, Resp, HR;

Optionals: Center Monitoring System, Printer, EtCO₂



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1. Patient monitor type

Standard electric shock proof	Class I electric shock proof equipment
EMC	Class A
Standard electric shock proof level	ECG(RESP): CF type; SpO2,NIBP\TEMP: BF type
Liquid-proof level:	Generally sealed equipment without liquid-proof function
Disinfection/sterilization method	Refer to Chapter Five for detailed information
Working method	Continuous

2. Patient monitor specification

2.1 Working environment

Temperature range	
Working	0 ~ 40 C
Transportation and store	-20 ~ 60 C
Humidity range	
Working	≤85 %
Transportation and store	≤93% (No dew condensation)
Altitude range	
Working	-500 — 4,600m (-1,600 — 15,000 feet)
Transportation and store	-500 — 13,100m (-1,600 — 43,000 feet)
Electric specification	AC 100—240 V, 50/60 Hz, max. 70VA of input power
	Fuse is T 3.15A display specification.

2.2 Displayed information

- Max. 6 waves
- One alarm indicator (Yellow/Red)
- One working indicator (Green)
- One battery charging state indicator (Yellow)
- Three audible alarm modes corresponding to alarm states

2.3 Retrospection

Trend retrospection	
Short trend	1 hour, resolution: 1 second or 5 seconds
Long trend	72 hours, resolution: 1 minute, 5 minute or 10 minutes
NIBP measurement retrospection	Retrospection on 400 NIBP measured data

3. ECG Specification

3.1 Lead configuration

Standard 3-lead or 5-lead	
3-lead	RA、LA、LL, Lead method: I, II, III
5-lead	RA、LA、LL、RL、V, Lead method: I, II, III, aVR, aVL, aVF, V

3.2 Increase

0.25, 0.5, 1, 2, AUTO

3.3 HR

Range	
Adult	15 ~ 300bpm (beat/minute)
Neonatal baby/children	15 ~ 350 bpm(beat/minute) Precision
	±1% or ±1bpm, the larger prevails
Resolution	1 bpm(beat/minute)

3.4 Sensitivity

> 200 μV (Peak to peak value)

3.5 Input Impedance

> 5 (megohm)

3.6 Bandwidth

Diagnostic mode	0.05~130Hz
Monitoring Mode	0.5~40Hz
Operation mode	1~20Hz

3.7 Common Mode rejection Ratio

Diagnostic mode	> 90 dB
Monitoring Mode	> 100 dB
Operation mode	> 100 dB

3.8 Pole Polarization Voltage Range

300mV

3.9 Pacing Pulse Test

Test pacing pulse in accordance with the following conditions:

Amplitude:	±2 mV ~ ±700mV
Width:	0.1ms ~ 2ms
Risetime:	10μs ~ 100μs

3.10 Pacing Pulse Inhibition

When pacing analysis switch is on, pacing pulse in accordance with the following conditions are restrained, but affection against HR calculation.

Amplitude:	±2 mV ~ ±700mV
Width:	0.1ms ~ 2ms
Risetime:	10μs ~ 100μs

3.11 Baseline Recovering Time

After defibrillation< 3 seconds

3.12 Signal Range

8 mV (Peak-to-peak value)

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3.13 Calibrating Signal

1mV(Peak-to-peak value), precision 5%

3.14 ST Segment Measuring Volume

Measuring range: -2.0mV ~ +2.0mV

Measuring precision: Ranging -0.8 mV~+0.8mV,
measuring error is $\pm 0.02\text{mV}$ or $\pm 10\%$.

The larger prevails.No definition for other ranges.

4.1 Measuring Method

RA-LL impedance

4.3 Base Impedance Range

200 ~ 4000 Ω

4.5 RESP Rate

Range

Adult 0 ~ 120 BrPM

Children and neonatal baby 0 ~ 150 BrPM

Resolution 1 BrPM

Precision 2 BrPM

5. SpO2 specification

5.1 Blood Oxygen Saturation

Measuring range 0 ~ 100%

Resolution 1%

Precision 70 ~ 100%: 2 DIGIT

0% ~ 69%: No definition

6. TEMP specification

6.1 Applicable Temperature Probe

YSI series, CYF series

6.2 Channels quantity

2 channels

6.3 Measurement

Range 0 ~ 50C

Resolution 0.1C

Precision 0.1C (Excluding probe error)

4.2 RESP Impedance

Measuring Range

0.3 ~ 3 Ω

4.4 Bandwidth

0.1 ~ 2.5Hz

4.6 Asphyxia Alarm

10 ~ 40 seconds

5.2 Pulse rate

Measuring range 20 ~ 300bpm

Resolution 1bpm

Precision 3bpm

7. NIBP Specification

7.1 Measuring Method

Pulse wave oscillometry

7.2 Work Mode

Manual/Auto/Continual

7.3 Measuring Interval of AUTO

Measuring Mode 1,2,3,4,5,10,15,30,60,90,120,180,240,480 minute(s)

7.4 Measuring Time of CONTINUAL Mode

5 minutes

7.5 PR range

40 ~ 240 bpm

7.6 Measuring Range and Precision

Range

Adult

Children

Neonatal baby

Static pressure range

Static pressure precision

Pressure precision

Adult mode

Children mode

Neonatal baby mode

300 mmHg

240 mmHg

150 mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

Systolic blood pressure

Diastolic blood pressure

Mean blood pressure

Systolic blood pressure

Diastolic blood pressure

Mean blood pressure

Systolic blood pressure

Diastolic blood pressure

Mean blood pressure

0 ~ 300mmHg

3mmHg

Max. average error: 5mmHg;

Max. standard deviation: 8mmHg

300 mmHg

240 mmHg

150 mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

10mmHg

40 ~ 270mmHg

10 ~ 215mmHg

20 ~ 235mmHg

40 ~ 200mmHg

10 ~ 150mmHg

20 ~ 165mmHg

40 ~ 135mmHg

10 ~ 100mmHg

20 ~ 110mmHg

20 ~ 110mmHg

20 ~ 110mmHg

20 ~ 110mmHg

20 ~ 110mmHg

20 ~ 110mmHg

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20 ~ 110mmHg

70

37.7

120 / 80

40

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40

40

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40

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40

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40

40

40

40

40

40

40

40

40

40

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40

40

40

40

40

40

Mobile Stand (Model: EF-05-PMT2)



8. CO2 Specification(Optional)

(Model: EF-05-PMBETA8S)

8.1 Measuring Method

SideStream

8.2 Measuring Range

CO2: 0-99

INS: 0-99

AWRR: 0-99