

Zenix® Monitor/ Defibrillator

EMS Technical Specifications



General

Weight: 13.1 lb (5.94 kg) with battery

Dimensions: 9.5 in (24.1 cm) x 10.6 in (26.9 cm) x 8.7 in (22.1 cm)

Enclosure Protection:

Solid foreign object: EN 60529, IP5X
Liquid: EN 60529, IPX5

Operating Temperature:

32 to 122°F (0 to 50°C)
-4 to 140°F (-20 to 60°C) for 1 hour
after resting at room temperature.

Temperature:

-22 to 41°F (-30 to 5°C)
41 to 95°F (5 to 35°C) at
non-condensing relative
humidity up to 90%
95 to 158°F (>35 to 70°C) at water
vapour pressure up to 50 hPa

Humidity: 15 to 95%
(non-condensing)

Vibration: 60601-1-12

EN 1789 for ambulance

RTCA DO-160G, Section 8,
Category U

Shock: 60601-12, 100g, 6ms half sine

RTCA DO-160G Class A - 6G
Crash Shock

Drop: EN 1789/EN 13718,
(0.75 metre) functional drop,
(2 metre) safety drop 60601

Altitude: -1,276 to 15,000 feet
(-389 to 4,572 metres)

Monitor/Display

Type/Size:

Colour LCD 800 x 600 touchscreen
8.4 inch diagonally

Display: Up to 4 waveforms

Defibrillator

Waveform:

Rectilinear Biphasic™ Waveform

Patient Population: Adult,
paediatric, neonatal/infant

Patient Impedance Range:
15 to 300 ohms (hands-free
electrodes or external paddles)

Energy Selections: 1, 2, 3, 4, 5, 6, 7,
8, 9, 10, 15, 20, 30, 50, 70, 85, 100, 120,
150, 200 joules

Charge Time: Less than 7 seconds
with a new, fully charged battery at
77°F (25°C) for 15 successive charges

RapidShock®: Shock/No Shock
decision with pre-charge of the
device in 4 to 5 seconds

Advisory Defibrillation:

Shock Advisory Function prompts
rescuers through ECG analysis,
shocks and CPR throughout a
rescue event. The ECG is analysed
with a shock/no shock decision
provided to the rescuer

Pacer

Type:

External transcutaneous pacing

Pulse Types:

Rectilinear, constant current

Pulse Width: 40 ms +/- 2 ms

Pacer Rate: 30 - 180 PPM
(+/- 1.5% for Fixed Mode)

Output Current:
10 - 140 mA +/- 5% or 5mA
(whichever is greater)

Minimum Pacer Output: 10mA

Modes: Demand, Fixed

Output Protection: Fully defibrillator
protected and isolated

Cardioversion

Synchronised defibrillator pulse
to patients' R wave

"SYNC" message displayed on
monitor and markers shown on
both monitor and recorded ECG

ZOLL®

Real-Time Clinical Feedback

See-Thru CPR®:

Removes compression-related artefact from the ECG via an adaptive filtering technique

Real CPR Help®: Real-time depth and rate feedback

CPR Dashboard™: Numeric readout of paediatric and adult depth and rate, release indicator, perfusion performance indicator (PPI)

Real BVM Help®: Provides ventilation feedback including rate and tidal volume in ml

TBI Dashboard™: Provides graphical trends for SpO₂, Systolic BP, EtCO₂ and ventilation assistance

ECG Monitoring

Input: 3-lead, 5-lead, 12-lead cables, paddles, therapy electrodes with MFC cable

Lead Selection: Paddles, pads, I, II, III, AVR, AVL, AVF, V1-V6

Heart Rate Range:
0, 20 - 300 beats/minute

Heart Rate Accuracy:
3 beats/minute or +/- 3%, whichever is greater

ECG Size Range:
0.25, 0.5, 1, 2, 3, 4 cm/mV

ECG Sweep Speed: User selectable
25 mm/sec or 50 mm/sec

CO₂

Patient Population:
Adult, paediatric, neonatal/infant

Accuracy for All Conditions:
+/- (0.3 kPa + 4% readings)

Respiration Rate:
0 to 150 +/- 1 breaths/minute

Warm-Up Time: < 10 seconds
(concentrations reported and full accuracy)

Non-Invasive Blood Pressure

Patient Population:
Adult, paediatric

Method: Oscillometry

Control: Automatic and manual measurement

Auto Mode Intervals:
1, 2, 3, 5, 10, 15, 30, 60 mins

Masimo RD SET SpO₂

SpO₂ Saturation Range: 0 - 100%

SpO₂ Saturation Accuracy:

No Motion:

Adult/paediatric/infant:

70 - 100%, +/- 2%

Neonate: 70 - 100%, +/- 3%

Motion: 70 - 100%, +/- 3% adults/paediatrics/infants/neonates

SpO₂ Pulse Rate Range:
25 - 240 beats/minute

Masimo RD Rainbow SET

Masimo rainbow SET SpCO:

Range: 0 - 99%

Accuracy: 1 - 40%, ± 3%, Adults/paediatrics/infants

Masimo rainbow SET SpMet:

Range: 0 - 99%

Accuracy: 1 - 15%, ± 1%, Adults/paediatrics/infants/neonates

Masimo rainbow SET SpHb:

Range: 0 - 25 g/dL, 0-15.5 mmol/L, 0-250 g/L

Accuracy: 8-17 g/dL, 1 g/dL adults/paediatric

Masimo rainbow SET SpOC:

Range: 0 to 35 ml/dL

Masimo Perfusion Index (PI):

Range: 0.02% - 20%

Masimo Pleth Variability Index

(PVI): Range: 0.02% - 100%

Patient Log Files

Full Disclosure Data storage:

Up to 150 patient cases with FIFO storage or to the maximum storage capability

Printer / Recorder

Type: High resolution thermal array

Annotation: Snapshots, alarms, and treatment summaries

Paper Width: 80 mm

Paper Speed: 25 mm and 50 mm per seconds configurable

Record Modes: Manual or automatic configurable

Battery

Type: Rechargeable lithium ion, 10.8 Vdc, 8.61 Ah, 93 Wh

Capacity: With a new, fully charged battery operating at room temperature: At least 4 hours of continuous monitoring with ECG, SpO₂, CO₂, three invasive pressure channels, two temperature channels, NIBP measurements every 15 minutes, wireless communication disabled, display brightness set to 10%, and volume set to medium

Weight: 1.5 lb (0.68 kg)

Recharge Time:

5 hours to full charge, max. when charged by Zenix

AC Power Adapter: 100-240 VAC
50-60 Hz, 160 VA

External Data Transfer

Data Transfer Port: USB (Type A and C), WiFi, Bluetooth

Monitor Port: Video Out

WiFi: 802.11 a, b, g, n and ac

Bluetooth: 5.0

Cellular: External 4G Cat 4 cellular MiFi optional

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