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Variante	basic device	AED Option	PACER Option	SP02 Option
DefiMonitor XD				
DefiMonitor XD PACER				
DefiMonitor XD SP02				
DefiMonitor XD PACER, SP02				
DefiMonitor XD AED				
DefiMonitor XD AED, PACER				
DefiMonitor XD AED, SP02				
DefiMonitor XD AED, PACER, SP02				

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24185| GBI B



PRIMEDIC
Saves Life. Everywhere.

MONITOR

Model: LCD Monitor

Dimensions: 115 x 86 mm (diagonal 144mm, 5,7")

Resolution: 320 x 240 Pixel

Displays: Heart rate, SpO₂

ALARMS

Signal: Delay

High-priority alarm: < 10 s

Information signal: < 10 s

PHYSICAL PROPERTIES

Dimensions:

33 x 16 x 29 cm (w x d x h)

Weight:

approx. 5,3 kg (without energy module)

Protection class of applied parts:

defibrillation - proof, type CF

Protection class of casing:

Ingress of foreign matter:

IP3X protection against solid foreign matter with diameter of 2.5 mm

Ingress of liquid:

IPX3 protection against spraying water

Operating mode:

continuous

Classification:

Class IIb (MDD Annex IX Rule 09)

PRINTER

Model: Thermal printer

Number of channels: 1 to 3 channels

Type of paper: Thermal paper

Paper width: 58 mm

Printing speed:

25 mm/s, 50 mm/s

MEMORY

Model: Compact Flash Card 2GB

Voltage supply

Built-in power supply:

110 ... 240 V, 50/60 Hz

Power consumption:

110W

Protection class:

II for mains usage

AkuPak LITE XD*:

Lithium Ion Akku

internal supplied with power

Weight: approx. 500 g

Nominal capacity: 2500 mAh

Energy content: 33 Wh

Charging time 360 J:

12 ± 3 s when run at rated voltage from mains

12 ± 3 s when run with fully charged, new

AkuPak LITE XD

12 ± 3 s when operating at 90 % rated voltage

12 ± 3 s when run with an AkuPak LITE XD after discharge of energy for 15 shocks

≤ 25 s maximum time from switching on until

ready for manual defibrillation of 360 J

≤ 33 s maximum time between switching on

and readiness for AED-defibrillation of 360 J

Charging Time (0 - 90 % SOC):

approx. 3:00h in the DefiMonitor XD

Number of shocks 200 J:

160

Number of shocks 360 J:

95

Operating time (monitoring):

minimum 5 hours (for AkuPak LITE XD after

three initial shocks in AED-Mode, ECG- / SpO₂-

monitoring until device is switched off)

Operating time (pacing):

minimum 3 hours 20 minutes (for AkuPak LITE

XD after three initial shocks in AED-Mode, ECG-

/ SpO₂-monitoring until device is switched off)

OPERATING CONDITIONS

Temperature:

0 °C to 45 °C, 32 °F to 113 °F

Humidity:

15 % - 95 % non condensing

Air pressure:

620 hPa – 1060 hPa

STORAGE CONDITIONS

Temperature:

-20 °C to +50 °C, -4 °F to +122 °F

Humidity:

15 % - 95 % non-condensing

Air pressure:

620 hPa – 1060 hPa

TRANSPORT CONDITIONS (MAX. 10 DAYS)

Temperature:

- 25 °C to + 50 °C, - 13 °F to + 122 °F

Humidity:

15 % - 95 % non-condensing

Air pressure:

620 hPa - 1060 hPa

MONITORING

Heartrate

Measurement range: 30 – 300 BPM

Resolution: 1 BPM

Display update rate: 1s

Accuracy: ± 10 % or ± 5 bpm,

depending on which is larger

ECG

Leads: I, II, III, aVR, aVL, aVF

Impedance: 500 – 2500 Ohm

Power output for the measurement of electrodes that fell off:

4 µA RMS, 30 kHz, sine-shaped

Detection of electrodes that fell off:

detected and shown

Input

Dynamic input rate:

± 5 mV AC, ± 300 mV DC

Voltage range for detecting QRS complexes:

± 0,5 mV ~ ± 5 mV

QRS complex signal width:

40 to 120 ms (Q to S)

Output

Frequency response (monitor):

0,67 to 40 Hz

ECG sensivity (monitor):

5, 10, 15 mm/mV

Display sweep speed: 25.0 mm/s

Pacing pulse detection:

On

Alarm for electrode separation:

Voice message

ECG/paddle input classification:

CF, defibrillation-proof



MANUAL DEFIBRILLATION

Impedance range: 23 Ω - 200 Ω

Measurement frequency impedance: 30 kHz

Energy levels adult mode:

2 J, 5 J, 7 J, 10 J, 20 J, 30 J, 50 J, 70 J, 100 J,
150 J, 200 J, 250 J, 300 J, 360 J

Energy levels pediatric mode:

2 J, 5 J, 7 J, 10 J, 20 J, 30 J, 50 J, 70 J, 100 J

Time until internal discharge:

15 s

Maximum delay time between synchronisation pulse and energy output:

60 ms

Time until charged up to 360 J:

12 s

Maximum time from switching on until ready for defibrillation of 360J:

25 s

Maximum time between the start of analysis and readiness for defibrillation of 360J in the AED-Mode:

33 s

Schock method:

Paddles, SavePads (Connect)

for pediatric patients: SavePads Mini

AED-MODE (OPTION)

Impedance range: 23 Ω - 200 Ω

Measurement frequency impedance: 30 kHz

Shock method:

Multifunction electrodes for adults or pediatrics

Asystole threshold: $\geq 200 \mu V$

Analysis duration: 4 - 20 s

Adult mode energy stages to 50 Ω :

290 J, 340 J, 360 J

Pediatric mode energy stages to 50 Ω

50 J, 70 J, 100 J

Sensitivity: $> 90 \%$

Specificity: $> 95 \%$

Real predictive value: $> 90 \%$

False positive rate: $< 5 \%$

PACER (OPTION)

Impedance range: 23 Ω - 200 Ω

Measurement frequency impedance: 30 kHz

Modes: FIX, DEMAND, OVERDRIVE

Stimulation frequency:

FIX, DEMAND: 30 ppm – 180 ppm

OVERDRIVE: 30 ppm – 250 ppm

Stimulation frequency accuracy: $\pm 0,5 \%$

Energy output via:

Multifunction electrodes

Stimulation intensity:

10 mA - 180 mA

Stimulation intensity accuracy:

$\pm 10 \%$ or $+ 3/-1$ mA

Puls width: 20 ms

Puls width accuracy: $\pm 100 \mu s$

Refractory period:

340 ms for a stimulation frequency < 100 bpm

240 ms for a stimulation frequency ≥ 100 bpm

SpO2 (OPTION)

Sensor

Nellcor SpO2-Fingersensor FLEXMAX

Operating conditions:

0 °C to 40 °C, 32 °F to 104 °F

Measurement Range

Puls oximetry saturation SpO2:

1 % - 100 %

Pulse rate measurement range:

20 – 250 bpm

Wavelength red: 660 nm

Wavelength infrared: 900 nm

Output power:

< 5 mW

Power dissipation: 52,5 mW

SpO2 input classification:

CF, defibrillation-proof

Measurement accuracy

Adult: 70 - 100 % ± 2 digits

Adult and Neonate Low Sat:

60 - 80 % ± 3 digits

Neonate:

70 - 100 % ± 2 digits

Low Perfusion:

70 - 100 % ± 2 digits

Adult and Neonate with motion:

70 - 100 % ± 3 digits

Pulse rate measurement accuracy

Adult and Neonate:

20 - 250 ± 3 bpm

Low Perfusion:

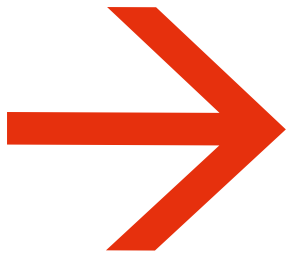
20 - 250 ± 3 bpm

Adult and Neonate with motion:

48 - 127 ± 5 bpm

* All specifications apply to a fully charged new AkuPak LITE XD and a temperature of 20 degrees Celsius ± 5 degrees Celsius
AkuPak LITE XD: The AkuPak LITE XD typically lasts up to the earlier of 4 years or 1,000 charging cycles under the following conditions:
The AkuPak LITE XD is inserted to the device, the device only stays in standby mode and is not used, but only performs usual self-tests at the intervals recommended by Metrax. The environmental temperature is at all times at 23 degrees centigrade (± 2 degrees centigrade), so that the lifetime will be significantly lower if the devices are stored at outside temperatures. Due to various parameters that might influence the lifespan of the AkuPak, Metrax does not assume any liability with regard to the lifespan of the AkuPak.





Product Updates

- ▶ **New Plug / SavePads**
- ▶ **New SpO2-Module**
- ▶ **CPR@Charging**
- ▶ **Outprint of selftest**
- ▶ **AkuPak LITE XD**
- ▶ **New Articlenumbers**

