CardioAid 200B

Biphasic Defibrillator

5-second charge





C€ 0120

STARTM Biphasic technology
Extremely short charging time
2-hour monitoring time or 100 shocks
Manual, Synchronous, Semi-automatic mode
16 languages
External pacemaker

100 shocks

Semi-automatic

The user is guided through the semi-automatic procedure with clear screen and voice prompts. This ensures safe and intuitive use and minimizes the chances for operator confusion. The easy-to-use interface also reduces staff training requirements.

Flexible features

The Cardio-Aid[®] 200B is the ideal defibrillator for the hospital environment. The Cardio-Aid[®] 200B user interface and advanced features enable both experienced and infrequent users to provide fast and precise defibrillation at all times.



User friendly

Open the flap and access manual defibrillation, external pacing, and synchronized cardioversion features. This hidden keyboard allows experienced users to access manual operation while eliminating confusion for infrequent users.



Automatic self test

The Cardio-Aid® 200B wake up self check automatically starts every 24 hours advising of operational status and ensuring the unit is ready at all times.

Battery and mains operation

The built-in battery provides at least 2 hours of monitoring or 100 shocks at maximum energy level. Connected to the mains the battery can be charged in 1 hour.

5 SEC FOR



Extremely short charging time

The typical charging time is 5 seconds (7 seconds at first shock), which ensures the shortest possible time to shock.

It is possible to discharge into the built-in tester in order to verify energy discharge accuracy.



ONDS LIFE



STARTM Biphasic Technology

The STARTM (Self-Tracking Active Response) biphasic waveform was designed with one principle in mind: optimized energy delivery. The STARTM biphasic waveform technology provides optimized energy delivery by measuring the patient's impedance (body's opposition to the flow of electrical current) and customizing a waveform to deliver the most effective therapy possible.

In clinical trials STARTM biphasic waveform was successful in 100% of defibrillation attempts, even though prehospital data has shown defibrillation success rates of 89% with an average patient.

All-in-Hand™ Simple Operation

Users can choose from pre-gelled pads -"- semi-auto-matic mode, hand-free defibrillation - or ergonomic paddles with controls. During operation the paddles allow the setting of energy levels, the start of charge and shock, so the user only controls the paddles and does not have to touch the device. Internal electrodes are available for defibrillation during open-heart surgery.

OPTIONS



MEMORY CARD SLOT



STRIP-CHART PRINTOUT



PULSEOXYMETER

ACCESSORIES



DEFIBRILLATION / PACER ELECTRODES



INTERNAL ELECTRODES FOR CARDIAC SURGERY



BED HOOK FOR RAIL AND BED MOUNTING



COMBINED PEDIATRIC /
ADULT PADDLES



CODELOG DATA STORAGE (SOFTWARE)



ACCESSORY BAG FOR RESUSCITATION ITEMS

TECHNICAL INFORMATION

GENERAL

Size: 31 x 36 x 25cm

Weight: 7.6kg incl. defibrillator electrodes and battery

) 9kg incl. paddles, battery, pacer and recorder

) Power: 100-240VAC, 50/60Hz, max. 270W

) Temperature: Operating: 0 - 40°C / Storage: -10°C - 60°C (<168h)

Humidity: 30 - 95% relative, non-condensing

) Classification: Class I / Internally powered equipment

) Water protection: Drip-proof equipment (IP22)

) Mode of operation: Continuous operation

LCD

Type: Black and white LCD with CCFL backlight

) Size: 120 x 90mm

Resolution: 320 x 240 pixel

ECG window: 4.0s

) ECG speed: 25mm/s

DEFIBRILLATOR

STARTM BIPHASIC TECHNOLOGY WITH MAX. 270 - 360 JOULE PATIENT IMPEDANCE COMPENSATED OUTPUT ENERGY

) Energy recharge time to max. energy: typically < 5s

Energy settings:

AED: #1=200J, #2=200J, #3=270J or according to configuration menu settings

Selectable energies:

With external defibrillation electrode: 2 - 360J in 15 steps With internal defibrillation electrode: 1 - 50J in 15 steps

Energy availability: Auto disarm after 30s

) Synchronous defibrillation with internal QRS synchron generation

) Synchronization shock delay: Typically 40ms (<60ms) from QRS peak

) Synchronization marker: "S" with a vertical line

Classification:

External defibrillation: BF Internal defibrillation: CF

ECG

Lead selection:

P (defibrillator electrodes)

Ext (external signal source)

I, II, III (3-lead cable)

I, II, III, aVR, aVL, aVF, VX (5-lead cable)

) QRS volume: Selectable 0 - 5

) Gain: x0.25, x0.5, x1, x2, x4, auto (default)

CMRR: Typically 110dB (50 / 60Hz) (with notch filter)

Differential input: +/- 5mV

) Overload recovery time: Typically < 4s

) Differential dynamic range: +/- 360mV

) Classification: CF, defibrillator-proof

) QRS detection trigger level: 200µV

) Heart rate alarm limits (manual / pace mode, adjustable in

1 b /min steps)

ECG manual alarm upper limit: max. 300 b / min ECG manual alarm lower limit: min. 30 b / min Heart rate alarm delay: lower and upper limit: < 10s

Heart rate display: 1 b / min steps

ECG VIA DEFIBRILLATOR ELECTRODES

Mode: Differential

> Frequency response (-3dB):

Display: 2 - 25Hz

Printer (option): 2 - 30Hz

Impedance range: 20 - 10000hm measured at 70kHz

) Pace pulse handling: Slew rate limitation without marker

ECG VIA ECG ELECTRODES

) Mode: Differential

Frequency response (-3dB without filter):

Display: 0.05 - 25Hz Printer: 0.25 - 105Hz

) Pace pulse handling: Pace detector with marker. Max. pace rhythm

180 b / min

ECG FROM MONITOR

) Dynamic range: +/- 5V (1V/mV signal)

) Max. ECG signal delay in monitor: 5ms

MEMORY CARD

) Capacity: 256KByte - 16MByte

) Data storage time: min. 1 year

Type: SRAM 68-pin

Conforming to JEIDA 4.0

Card standard PCMCIA 1.0

) Storage capacity (approximate number of sequences of 28s): 256k=35; 512k=70; 1M=140; 2M=280; 4M=570; 8M=1140; 16M=2280

BATTERY

) Type: Built-in, quick-charge NiCd, 12V 2.4Ah

Operating time at 20°C: 2 hours or 100 shocks at 360J

Charging time for fully depleted battery: 1 hour

) Lifetime: Min. 18 months at normal use (i.e. up to 1 charge cycle per day)

PACER (OPTION)

) Mode: VVI demand or VVO fixed

) Pulse type: Rectengular, constant current

Pulse duration: 40ms +/- 10%

Pulse amplitude: Variable 20 - 200mA +/- 10% (default 0mA)

) Pulse adjust step size: +/- 1mA (+/- 5mA after 1s)

Pace rate: Variable 30 - 180 p / min +/- 5% (default 50 p/min)

Pace rate adjust step size: +/- 1 p / min (+ 5 - 20 p / min after 1s)

Output voltage: Max. 350V

PRINTER (OPTION)

) Print modes: Manual or automatic (selectable)

Print time: Selectable - 15, 20, 30s, continuous

) Speed: 25mm/s or 50mm/s

) Paper: Heat sensitive, 58mm x approx. 25m

) Mode: ECG delayed by 8s

) Weight: 370g

PULSEOXYMETER (OPTION)

) Sensor: Reusable finger sensor

Saturation: 1 - 100% SpO2 Accuracy (70 - 100%) +/- 3%

Pulse rhythm: 20 - 300 b / min Accuracry: (20 - 250) +/- 3 b / min

REMOTE CONTROL (OPTION)

External interface via PCMCIA port: PCMCIA to RS232 adaptor card 2 port

Parity: none

) Data bits: 8

Stop bit: 1

) Flow control: XON/XOFF

) Baud rate: 9600

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