



Package Content

1. CardiAid CT0207
2. CardiAid Protection Bag - CT0207P
3. Pre-connected Electrodes - CT0207E
4. Emergency Kit - CT0207EK

- Plastic Emergency Bag
- Mask
- Razor
- Gloves
- Scissors
- Alcohol Pad

CARDIAID CT0207 - TECHNICAL SPECIFICATIONS

CE 0494

Defibrillation System

Operating Mode : Automated (one button operation)

Wave Form : Biphasic, current-limited

Shock Energy : Low energy (max. 181J) or high energy (max.237J), programmable, energy adjusted to patient impedance.

Shock Sequence : Constant or escalating, programmable (factory setting)

Charging Time : Typically < 10 seconds*, maximum < 15 seconds*

ECG Analysis System

Analysis Time : Typically < 10 seconds*

Derivation : II

Asystole Threshold : < 0,2 mV

Specificity NSR/Asystole : > % 95**

Sensitivity VF/VT : > % 90**

Reaction to Implanted

Pacemaker : Normal cardiac pacemaker rhythms are not detected as being shockable

Impedance Measurement : Checks electrodes contacts.

Movement Detection : Check the signal quality; acoustic warning at patient movement

Operation

Operating Elements:

- i) Automatic switch-on when cover is opened
- ii) Flashing shock key (one-button operation)
- iii) Info key

Info Mode : Announcement of the elapsed time and number of shocks since device started, when info-button pushed

Display Elements : Self-explanatory illuminated symbols (traffic light principle)

Defibrillation Electrodes

Range of Application : CardiAid can be used for adult or young patients over 20 kgs.

Delivery State : Disposable self-adhesive electrodes ready for use, sealed and packed with connector outside of package

Polarization : Not polarized

Electrode Surface Area : Each 125 cm²

Cable Length : 130 cm

Shelf Life : 30 months from date of Manufacture

Data Management

Event Documentation : Automatic recording of ECG and event data in internal memory up to 4 sessions with a total maximum duration of 4 hours

Data Transfer : Bluetooth (only for service)

Event Review and

Device Programming : Via bluetooth connection to PC with Software CardiAid View (only for service)

Self-Test

Schedule : Automatic daily, monthly and when device is switched-on

Timing : Programmable

Scope : Battery, internal electronics, software, charging

Energy Supply

Type : Alkaline

Shock Capacity : Typically 210 shocks*, min. 100 shocks*

Monitoring Capacity : Up to 20 hours

Stand-by Period : 2 years

Environmental Conditions

Storage and Transport:

i) 0°C to +50°C

ii) -20°C to +60°C (limited to max. 2 weeks, without battery and electrodes)

Operation : 0°C to +50°C

Relative Humidity : 0 - 95 %

Standards

Norms : EN60601-2-4, EN60601-1

Resuscitation Protocol : ERC, ILCOR 2005

EMC : EN60601-1-2, EN55011, EN61000-4-3, EN61000-4-8

Protection Class : IEC 529, IPX4 (spray water safety))

Dimensions and Weight

Width : 301 mm

Height : 304 mm (including handle)

Depth : 112 mm

Weight : 3,1 kgs (including battery and electrodes)

Device Class : II B (93/42/EEC)

* Data are valid at 20°C with new, fully-charged batteries. Values can vary and are dependent upon storage and environmental conditions, frequency of use, pre-configured settings, and the shelf life of the product.

** The algorithm and the board of CardiAid AED CT0207 offers the optimum combination of sensitivity and specificity.

1) Published in "Automated Analysis of electrical signals of the human body for detecting of lifethreatening cardiac abnormalities", Igor Tchoudovski, Mensch and Buch Verlag, ISBN 3-89820-984-9, Page 141

2) The New VF/VT algorithm and board is used in CardiAid AED CT0207.

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