# TAMULACIO PEO DES/O

#### Technical data

## FRED® easyport® plus

## System

#### Versions

#### FRED easyport plus:

- AED FIRST: AED semi-automatic with or without ECG display (configurable)
- AED AUTO: AED fully automatic with or without ECG display (configurable)
- **AED MANUAL:** AED semi-automatic and manual with ECG display

**Dimensions:** 46 x 150 x 143 mm (h x I x w)

#### Weight:

- Approx. 0.780 kg with battery (battery = 93 g)
- Approx. 0.870 kg with battery and electrodes
- Approx. 1.510 kg with bag, electrodes & feedback sensor (feedback sensor = 161g)

#### **Ambient conditions**

#### Temperature:

- Operation: -5 to 50°C;
- Limited operation: -10°C to -5°C for 1 hours or -20°C to -10°C for 20 minutes
- Transport/storage: -10 to 50°C/5 to 50°C

#### **Humidity:**

- Operation: 10 to 95% non-condensing
- Transport/storage: 10 to 95% non-condensing

#### Pressure:

- Operating: 540 to 1060 hPa
- Transport/storage: 500 to 1060 hPa

#### Dust and water protection: IP44

#### **Electrical data**

### Power supply:

- Lithium/MnO<sub>2</sub> 12 V, 16.8 Wh (non rechargeable)
- Lithium-Ion 11.1V, 12.9 Wh (rechargeable)

## Battery capacity:

(corresponding to laboratory tests at 25°C)

#### Lithium/Mn02:

- approx. 80 shocks at max. energy with 2 minutes monitoring between shocks with total running time of approx. 4 h 50 minutes
- Standby: with weekly self-tests approx. 1 year, 1 month
- Standby: with monthly self-tests approx. 2 years, 6

#### with Li-Ion (rechargeable):

- approx. 70 shocks at max. energy with 2 minutes monitoring between shocks with total running time of approx. 3 h
- Standby: with weekly self-tests approx. 1 year, 1 month
- Standby: with monthly self-tests approx. 1 year, 6 months

#### Display/voice prompts

#### Display:

- High resolution color LCD 320x 240, 3.5 "
- ECG curve display 61 x 15 mm (configurable)
- Action picture
- CPR feedback information

Voice prompts languages: The device can be provided with various languages.

#### Display/voice prompts

Metronome: configurable pace for CPR

#### Interfaces & data recording

Recorded data: 8 hours ECG signal recording and technical events on a internal 8 Gbit memory SD card

- USB A 2.0 host (max. 500mA) for LifePoint sensor

- USB mini B 2.0 device only for service

#### Wireless

Bluetooth 4 0

#### Defibrillation

#### Defibrillation mode

Semi-automatic or fully automatic AED version

Manual defibrillation

BTE (Biphasic Truncated Exponential) Multipulse Biowave®

**AED adult:** 150/200/200 J - other energies settings can be configured

**AED child:** 50/50/50 J – other energies settings can be configured - automatic adaptation when paediatric pads are connected.

#### Pads

Type: for adult and child

Cable length: 2 m

Size pads: 80 cm<sup>2</sup> (adult) and 42 cm<sup>2</sup> (child) active surface

## CPR feedback (optional)

Sensor: Argus LifePoint®

Measurements: Depth, speed and recoil<sup>a</sup> during chest compression

a. Except for France, Germany, UK and USA

## **Standards**

#### Certification:

#### Classification according to Directive 93/42/EEC: IIb

- IEC60601-1: Electrical safety
- IEC60601-1-2: EMC IEC 60601-1-11: Requirements for MD devices in home healthcare environment
- IEC 60601-1-12: Environmental condition for emergency medical devices
- IEC60601-2-4: Defibrillators infrequent (non-rechargeable battery/frequent use (rechargeable battery)
- IEC 60529: Protection indication
- EN 13718-1 Requirements for medical devices used in air ambulances
- EN 1789 Medical vehicles and their equipment
- RTCA DO-160 A1 Environmental Conditions and Test Procedures for Airborne Equipment

Notified body: ( € 0123

