



## Technical data

# FRED<sup>®</sup> PA-1 / Online

## System

### Versions

FRED<sup>®</sup> PA-1: Standalone version

FRED<sup>®</sup> PA-1 Online: Connected via cellular network technology to the LifeDataNet<sup>®</sup> G2 Server for devices pool management and intervention data transmission.

### Device

Dimensions: 310 x 255 x 100 mm (h x l x w)

Weight: 2.5 kg (incl. battery)

### Ambient conditions

Temperature:

- Operation: -5 to 40 °C;
- Transport/storage: -20 to 50 °C

Humidity:

- Operation: 30 to 95 % non-condensing
- Transport/storage: 0 to 95 % non-condensing

Pressure:

- Operating: 700 to 1060 hPa
- Transport/storage: 500 to 1060 hPa

Dust and water protection: IP55

### Electrical data

Power supply: Replaceable Li-MnO<sub>2</sub> battery 15 V, 2.8 Ah

Battery capacity: more than 140 shocks at maximum energy and 6 hours of operation, if device is stored/used in optimal temperature conditions between 15 to 25 °C.

Standby duration:

- 6 years with weekly self-tests (corresponding to laboratory tests at 25°C) for FRED<sup>®</sup> PA-1
- 3 years with weekly self-tests for FRED<sup>®</sup> PA-1 Online (corresponding to laboratory tests at 25°C)

### Display/voice prompts

LED and pictograms with voice prompts to guide the user.

Voice prompts languages: The device can be provided with different languages. Optional configuration with 3 languages, selectable after switching ON the device.

Metronome: configurable pace for CPR

### Interfaces & data recording

Interface: SD card

Recorded data: 2 hours ECG signal recording and 500 technical events

### FRED<sup>®</sup> PA-1 Online

Interface:

- Quad band GSM/GPRS/EDGE 850/900/1800/1900 MHz
- UMTS/HSPA+ 850/900/AWS1700/1900/2100 MHz

LifeDataNet<sup>®</sup> G2:

- is hosted by an approved provider for hosting health and medical data
- complies with the highest security standards (ISO 27001).
- server to device communication is certified with an SSL certificate and encrypted over AES 128 bits.

## Defibrillation

### Defibrillation mode

AED

Semi-automatic or fully automatic version

### Waveform

BTE (Biphasic Truncated Exponential)

### Energy

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> active surface

RFID tag: for pads shelf life monitoring

### FreeCPR

Optional information on the chest compression frequency using impedance variation acquired with defibrillation pads.

## Standards

### Certification:

Classification according to Directive 93/42/EEC: II b

Standards:

- IEC60601-1: Electrical safety
- IEC60601-1-2: EMC
- IEC60601-2-4: Defibrillators
- IEC 60529: Protection indication

Notified body: CE 0459



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