

FRED® EASYPORT® PLUS

Small and powerful defibrillator for anyone - anytime - anywhere

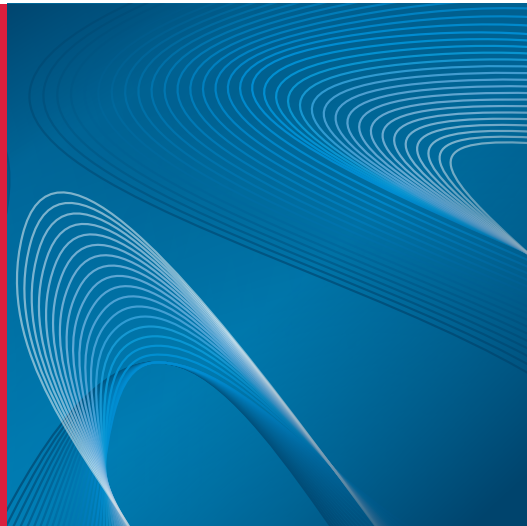


SCHILLER
The Art of Saving Lives

FRED® EASYPORT® PLUS

The ideal companion on the go

FRED® easyport® plus, the pocket-size defibrillator, fits easily into every doctor's bag and emergency kit. It is the ideal companion during any intervention.



IT CONCERNS ALL OF US

Every year, more than 7 million people fall victim to a sudden cardiac arrest worldwide. A sudden cardiac arrest can hit anyone, anywhere and at any time.

Defibrillation delivers electrical energy to the heart, restoring a proper heart rhythm. A defibrillator in combination with well-performed chest compressions is the only therapy that can save a patient's life.

EASY TO CARRY

As a pocket-size defibrillator, the FRED easyport plus weighs only 780 grams and combines small size with great functionalities.

SHOCK AS SOON AS IT IS REQUIRED

International guidelines emphasise the importance of minimising the delay in shock delivery.

To reduce this delay, the FRED easyport plus has a quick analysis system and loads the required energy systematically so that the shock can be delivered as soon as the device recommends it.

ADAPTED TO ANY USER

The FRED easyport plus is suitable for frequent as well as non frequent users. It can be operated with a rechargeable or a disposable battery. The external charger can charge two batteries simultaneously.

CPR FEEDBACK

Defibrillation alone is not enough. To maintain a good supply of oxygen to the organs, cardiopulmonary resuscitation (CPR) needs to be performed correctly to restore a proper blood flow.

The FRED easyport plus helps you to achieve highest efficiency in chest compressions by:

- ✧ indicating the correct depth, frequency and recoil*
- ✧ setting a regular rhythm through the metronome

When using the ARGUS LifePoint sensor, the rescuer benefits from visual assistance through on-screen colour-coded messages while performing chest compressions.

*Recoil not available in France, Germany, UK and USA



INFORMATION TRACKING

The FRED easyport plus records intervention data, allowing doctors and emergency physicians to get a better overview of the patient's situation.

- ❖ CPR quality
- ❖ ECG curve
- ❖ Impedance curve
- ❖ Events

INFORMATION RETRIEVAL

Thanks to USB and Bluetooth functionalities, saved files can easily be reviewed and managed by SCHILLER's data management solution SEMA.

FIND THE DEVICE THAT SUITS YOU

The FRED easyport plus is available in three versions to fit the different user levels.



AED FIRST

The FRED easyport plus semi-automatic AED with its grey cover requires the rescuer's confirmation to deliver a shock.

An ECG curve can be displayed on the large LCD colour screen.

Suitable for first responders.



AED AUTO

The fully automatic FRED easyport plus does not require any action from the rescuer. After the heart rate analysis, the device determines whether a shock is necessary. If it is, the shock is delivered automatically.

An ECG curve can be displayed on the large LCD colour screen.

Suitable for trained lay responders.



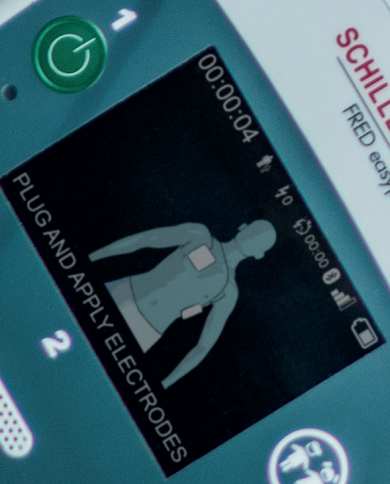
AED MANUAL

Distinguishable by its red cover, the manual FRED easyport plus allows doctors and paramedics to switch to manual override. Thanks to the ECG display, healthcare professionals can determine if a shock is necessary.

Suitable for physicians.



SCHILLER
FRED easyport plus



PLUG AND APPLY ELECTRODES

00:00:04

2

3



SMALL AND POWERFUL

The FRED easyport plus weighs only 780 grams and delivers shocks of up to 200 joules. The Multipulse Biowave® technology ensures an effective and safe defibrillation shock while minimising damage to the myocardium.

GAIN PRECIOUS SECONDS

The defibrillation electrodes are pre-connected for a quick application on the patient's chest. Heart rate analysis starts right away to reduce time until the shock is delivered.

ALWAYS READY

The FRED easyport plus performs regular automatic self-tests to ensure it works correctly. Its status is indicated by the flashing on/off button.

DATA TRANSMISSION TO SEMA

Intervention data can be sent via USB or Bluetooth for review by healthcare professionals.

DESIGNED TO LAST

With IP44 classification, the FRED easyport plus resists entry of splashing water.





POCKET-SIZE DEFIBRILLATOR

The FRED easyport plus measures only 150 x 143 millimeters – this photo shows its original size (1:1)!

SUITABLE FOR ALL ENVIRONMENTS

The FRED easyport plus has a large colour LCD screen which automatically adjusts its brightness to help visualise indications at a glance.

INTUITIVE PAEDIATRIC MODE

While using the same electrodes, just press this button to change the patient mode.

CPR FEEDBACK

The integrated metronome sets the correct rhythm and guides the rescuer during the intervention.

Additionally, the ARGUS LifePoint sensor provides accurate visual assistance through on-screen colour-coded messages to ensure most effective chest compressions.

OPTIMISED USER INTERFACE

Three simple steps with illustrations and spoken instructions for a clear understanding.

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

Device

Dimensions: 46 x 150 x 143 mm (h x l 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 = 161 g)

Ambient conditions

Temperature:

- Operation: -5 to 50 °C;
- Limited operation: -10 °C to -5 °C for 1 hour 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/MnO₂ 12 V, 16.8 Wh (non rechargeable)
- Lithium-Ion 11.1 V, 12.9 Wh (rechargeable)

Battery capacity:

(corresponding to laboratory tests at 25 °C)

Lithium/MnO₂:

- 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 months

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 colour LCD 320 x 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 GB memory SD card

USB

- 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

Waveform

BTE (Biphasic Truncated Exponential)

Multipulse Biowave[®]

Energy

AED adult: 150/200/200 J – other energy 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 adults and children

Cable length: 2 m

Size pads: 80 cm² (adult) and 42 cm² (child) active surface

CPR feedback (optional)

Sensor: Argus LifePoint[®]

Measurements: Depth, speed and recoil^a during chest compression

a. Except for France, Germany, UK and USA

Standards

Certification:

Classification according to Directive 93/42/EEC: IIb

Standards:

- 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: CE0459



SCHILLER
The Art of Saving Lives