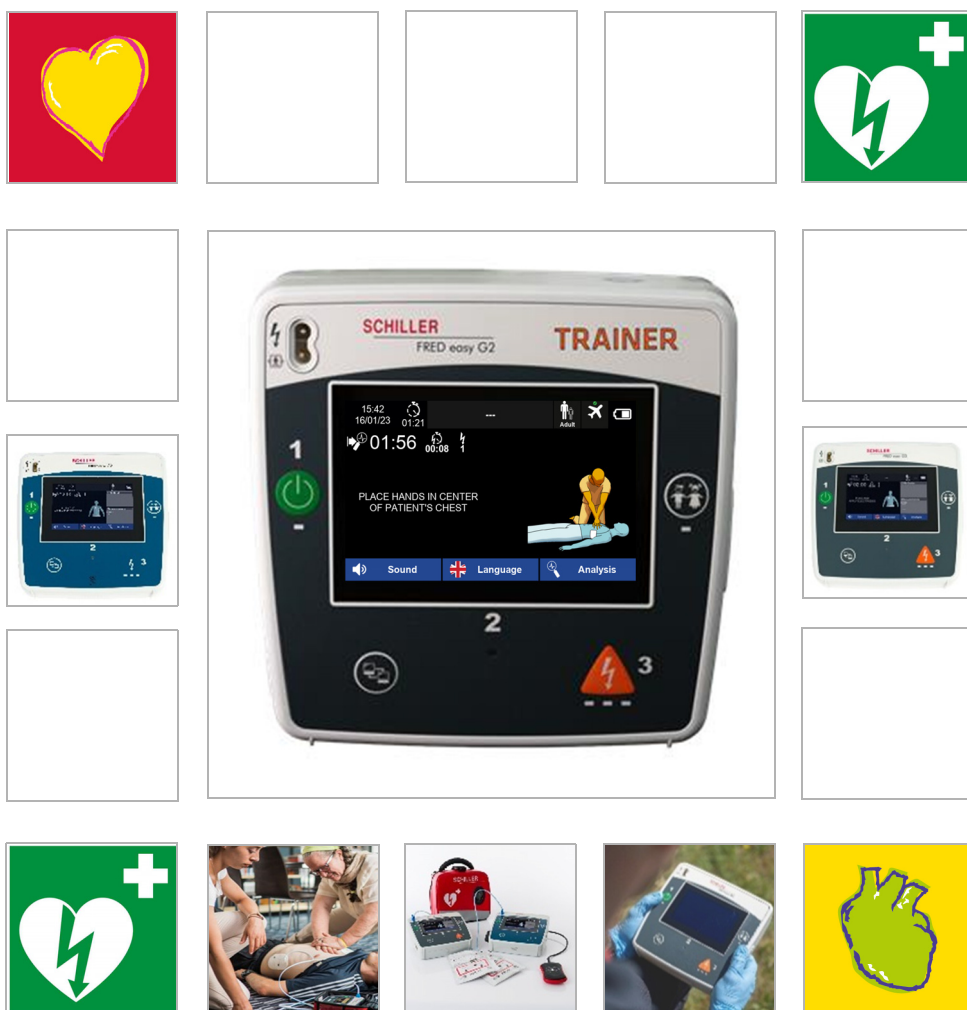
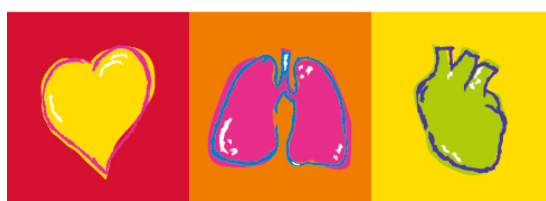


# FRED<sup>®</sup> easy G2<sup>®</sup> Trainer

## Automated External Defibrillator (AED)



### User Guide



**SCHILLER**  
The Art of Saving Lives

### Sales and service information

The SCHILLER sales and service centre network is world-wide. For the address of your local distributor, contact your nearest SCHILLER subsidiary.

In case of difficulty, a complete list of all distributors and subsidiaries is provided on our internet site:

<http://www.schiller.ch>

Sales information can also be obtained from:

[sales@schiller.ch](mailto:sales@schiller.ch)



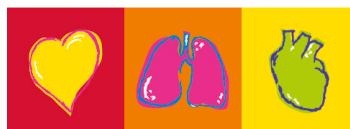
### Manufacturer

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# 1 Safety Notes

## 1.1 Intended Purpose

The FRED easy G2 Trainer is a training device designed to train the intended functions of the intended users in the intended environment of the FRED easy G2 Trainer device.

**Indication** The FRED easy G2 Trainer is **ONLY** used for training and simulation **NOT** for the use on a patient.

**Intended user** The FRED easy G2 Trainer is intended to be used for training purpose of the same intended users as the FRED Easy G2 device.  
The following people may use the FRED easy G2 Trainer:

- Anyone who wants to be trained in the application of an AED under supervision and with instructions of a trainer.

## 1.2 Contraindication



### Limitations

- ▲ Do not use the device in or near magnetic resonance imaging equipment (MRI).
- ▲ Do not use the device in transport (aircraft, railroad/train, vehicle).

### Contraindication for the patient

- ▲ The FRED easy G2 Trainer is not indicated to be use for patient treatment.

## 1.3 Responsibility of the User



- ▲ Damaged or missing components must be replaced immediately.
- ▲ Properly dispose of the packaging material and make sure it is out of children's reach.
- ▲ Do not store the training electrodes together with the normal electrodes or with the normal defibrillator.
- ▲ This user guide is only for the trainer and not for the trainee.

## 1.4 Safety-Conscious Operation



- ▲ Immediately report any changes that impair safety (including operating behaviour) to the responsible person.
- ▲ Only use original SCHILLER training electrodes.
- ▲ Immediately replace a damaged unit, or damaged cables and connections.
- ▲ Only operate the device in accordance with the specified technical data.

## 1.5 Maintenance and Cleaning



- ▲ Before cleaning, switch the unit off.
- ▲ Do not use aggressive or abrasive cleaners.
- ▲ Do not, under any circumstances, immerse the device or cable assemblies in liquid.

## 1.6 Additional Terms

### 1.6.1 Terms of Warranty

Your SCHILLER FRED easy G2 Trainer is warranted against defects in material and manufacture according the general terms of condition. Excluded from this warranty is damage caused by an accident or as a result of improper handling. The warranty entitles to free replacement of the defective part. Any liability for subsequent damage is excluded. The warranty is void if unauthorised or unqualified persons attempt to make repairs.

In case of a defect, send the device to your dealer or directly to the manufacturer. The manufacturer can only be held responsible for the safety, reliability, and performance of the apparatus, and assume the warranty, if:

- assembly operations, extensions, readjustments, modifications, or repairs are carried out by persons authorised by him,
- spare parts used for assembly operations, extensions, readjustments, modifications or repairs are recommended or supplied by SCHILLER, and,
- the SCHILLER FRED easy G2 Trainer and approved attached equipment is used in accordance with the manufacturer's instructions.



There are no express or implied warranties which extend beyond the warranties hereinabove set forth. SCHILLER makes no warranty of merchantability or fitness for a particular purpose with respect to the product or parts thereof.

## 1.7 Symbols and Indicators

### 1.7.1 Symbols used in this user guide

The safety levels are classified according to ANSI Z535.6. The following overview shows the safety symbols and pictograms used in this user guide. Danger, Warning, and Caution are used in this user guide to point out potential dangers and indicate risk levels. Familiarise yourself with their definitions and significance.



This symbol warns of a possible dangerous situation that could lead to severe personal injury or death.



This symbol warns of a dangerous situation that could lead to personal injury and/or indicate possible property damage.



For general safety notes as listed in this section.



Important or helpful user information.

Cross reference

### 1.7.2 Symbols used on the FEG2 Trainer

 [6 Appendix - Symbols, page 29](#)



Reading the instruction for use is mandatory before using the device!



Caution. Consult the warning and safety information in the IFU.



BF symbol

The FRED Easy G2's signal input is defibrillation-protected.



Dangerous voltage!

Used for electrical dangers during defibrillation.



USB compatible



Attention: non ionising electromagnetic radiation. Some of the devices contain an HF transmitter (Bluetooth).

**Note:** The FRED easy G2 Trainer radiates high-frequency electromagnetic energy and can disturb other devices if not installed and operated in accordance with the user guide. However, there is no guarantee that no interference can occur in specific installations. If the FRED easy G2 Trainer causes interferences, these can be determined by switching the device off/on. The user can take the following measures to prevent electromagnetic interferences:

- Increase the distance between the disturbed device and the FRED easy G2 Trainer. A minimum distance of 20 cm must be kept between the FRED easy G2 Trainer and a pacemaker.
- Turn the device FRED easy G2 Trainer to change the angle of radiation.

#### Symbols on the operating buttons



ON/OFF button



Shock button



Adult/Paediatric button



Transmission button (COM)



Reference number



Serial Number

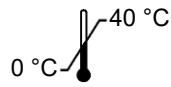


Symbol for the recognition of electrical and electronic equipment. Device must not be disposed of in the household waste.





CE marking



Temperature limit of storage and transport, respectively 0°C and 40°C.



Manufacturing date



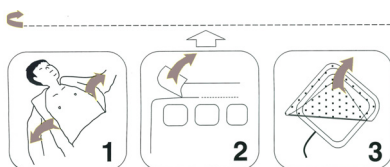
Manufacturer information

### 1.7.3 Symbols used on the electrode packaging

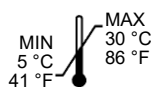


- ▲ These electrodes are only intended for training, not for clinical use.
- ▲ Do not store these electrodes with your normal defibrillator.

6 Appendix - Symbols, page 29



1. Remove the patient's clothes
2. Open the electrode packaging
3. Peel off the protective foil.



Temperature limit of storage and transport



Use within one day after opening.



The product is intended for patients weighing 25 kg or more.



Keep it dry



Keep out of direct sunlight



Manufacturer information



Manufacturing date



Reference number



Batch code

## 2 Components and Operation

### 2.1 General Information




The following instruction uses the Name FEG2 Trainer instead of the full name FRED easy G2 Trainer.



The FEG2 Trainer is a simple and cost-effective simulator of the FRED Easy G2 that is designed to be used exclusively for training.

The FEG2 Trainer doesn't deliver any energy, it simply plays through the resuscitation process with different scenarios. It is powered by a standard 7.4 V battery.

The FEG2 Trainer equipped with Bluetooth, identified by the symbol  on the device label, can be controlled and configured via your smart-phone/tablet PC with the "Defi training application" which can be downloaded from:



The FEG2 Trainer provides simulation that aim to help to familiarise with the FRED Easy G2 and shows that the users have the knowledge required to use it if necessary.

#### Operating modes

The operating mode can be selected by configuration. One device is enough to train both the fully automatic and semi-automatic mode.

- One scenario can be predefined.
- Scenario can be changed live by using the Defi training application.

#### Languages

All languages available on the FEG2 Trainer are also available on the Trainer. Language selection as well as scenario selection is done by configuration.

#### Standard package

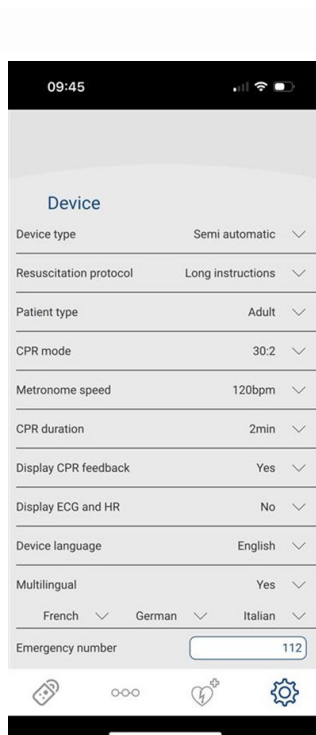
The FEG2 Trainer standard package includes:

- 1 FEG2 Trainer
- 1 set of training electrodes
- 1 training electrodes cable
- Power supply
- 1 Quick guide

#### ARGUS LifePoint (optional)

CPR feedback sensor for additional training on chest compression.

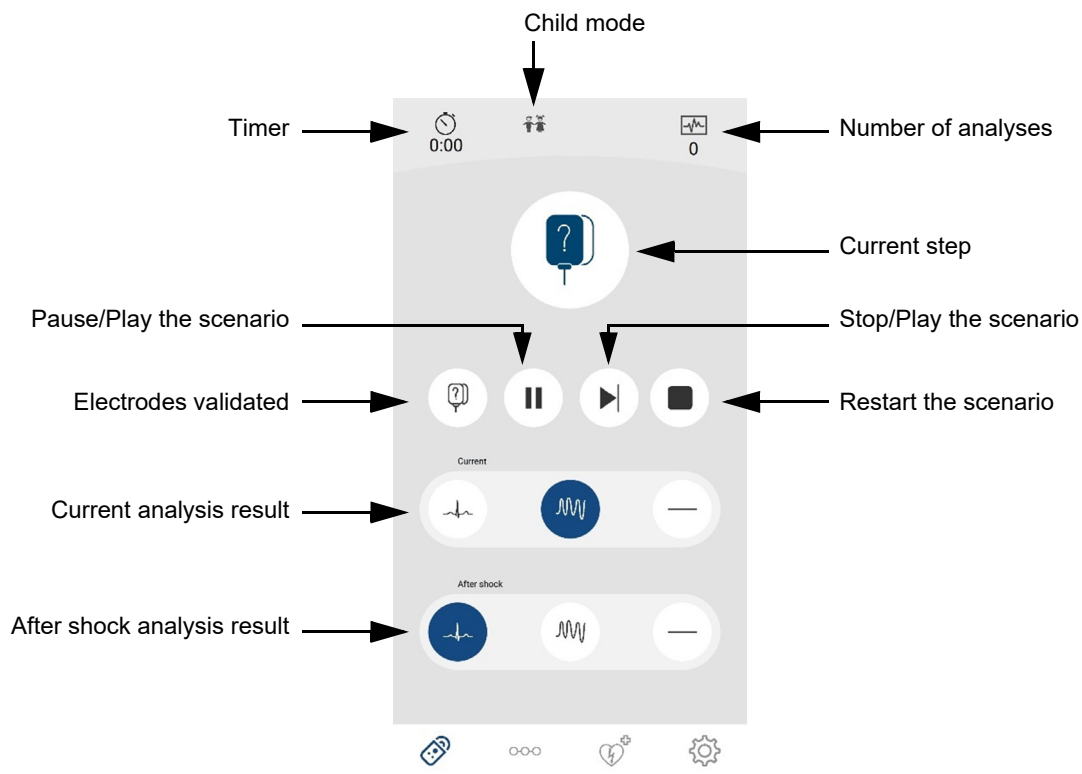
### 2.1.1 Configurations via Simulation App



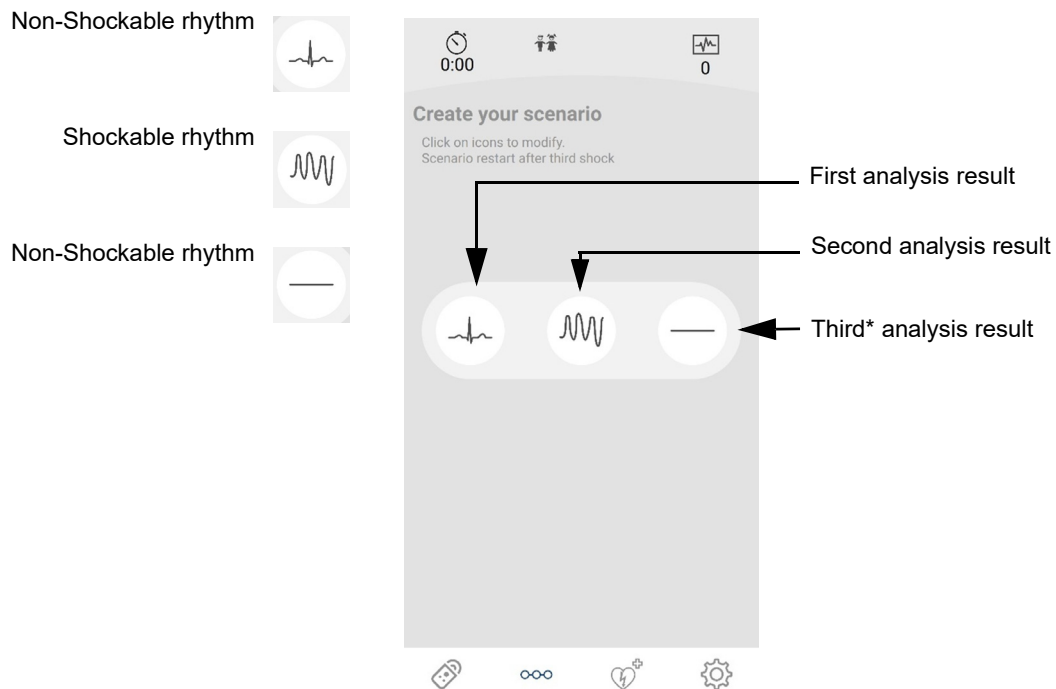
Configuration	Values	Description
Device type	<ul style="list-style-type: none"> <li>Fully automatic</li> <li>Semi automatic</li> </ul>	Selects the mode of device
Resuscitation protocol	<ul style="list-style-type: none"> <li>Long instructions</li> <li>Short instructions</li> </ul>	Selects the length of instructions
Patient type	<ul style="list-style-type: none"> <li>Child</li> <li>Adult</li> </ul>	Sets the patient type
CPR mode	<ul style="list-style-type: none"> <li>15:2 (only for Child patient)</li> <li>30:2</li> <li>Continuous</li> </ul>	CPR ratio
Metronome speed	<ul style="list-style-type: none"> <li>100bpm</li> <li>110bpm</li> <li>120bpm</li> </ul>	Sets the frequency of the metronome
CPR duration	<ul style="list-style-type: none"> <li>1min</li> <li>2min</li> <li>3min</li> </ul>	Sets the duration of the CPR
Display CPR feedback	<ul style="list-style-type: none"> <li>No</li> <li>Yes</li> </ul>	<p>If <b>Yes</b> is set, the device will display CPR feedback (Speed, Depth, Recoil) as soon as a LifePoint is applied.</p> <p>If <b>No</b> is set, no CPR feedback will be displayed.</p>
Display ECG and HR (not available for the moment) <sup>a</sup>	<ul style="list-style-type: none"> <li>No</li> <li>Yes</li> </ul>	<p>If <b>Yes</b> is set, the device will display ECG and Heart Rate as soon as defibrillation electrodes are applied.</p> <p>If <b>No</b> is set, no ECG or Heart Rate will be displayed.</p>
Device language	List of available language	Set the language in which the device will always start by default.
Multilingual	<ul style="list-style-type: none"> <li>No</li> <li>Yes</li> </ul>	<p>If <b>Yes</b> is set, the device could provide instructions in 3 more languages among the list of available language.</p> <p>If <b>No</b> is set, the device will run with only 1 language.</p>
	List of available language	Sets of the language in which the device will always start by default
Emergency number	Any number under 14 characters	Sets the emergency which will be displayed on the screen.

a. Will be available from the version 1.1.1

## 2.1.2 Remotes control via Defi Training App



### 2.1.3 Preconfigured scenario on Defi Training app



\* After the third analysis the scenario will continue to run the third analysis result for the fourth, fifth, ... analysis.

## 2.2 Operating and Display Elements



The status LEDs are not active!

### 2.2.1 Overview FEG2 Trainer

The picture below shows the user interface for an AED Trainer and CPR feedback display.

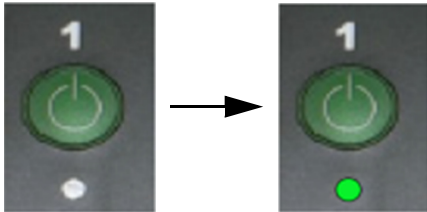


- (1) ON/OFF button and green Ready-to-use (RTU) LED
- (2) Electrode connector
- (3) Orange electrodes indicator LED
- (4) LCD touch screen
- (5) Adult/Paediatric button
- (6) Battery + Power supply
- (7) Shock button and orange Shock LEDs
- (8) Loudspeaker
- (9) Ambient light sensor
- (10) Transmission button
- (11) USB port for ARGUS LifePoint 2 feedback sensor or USB memory stick

## 2.3 Starting up the FEG2 Trainer

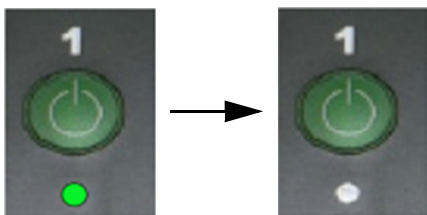
### 2.3.1 Switching device On and Off

#### Switching On



- Press the "ON/OFF" (1) button for 5 seconds to turn on the device and enter in the "stand by mode". The RTU LED will blink.
- Press a second time the "ON/OFF" (1) button to enter in the simulation mode. The RTU LED will light continuously.

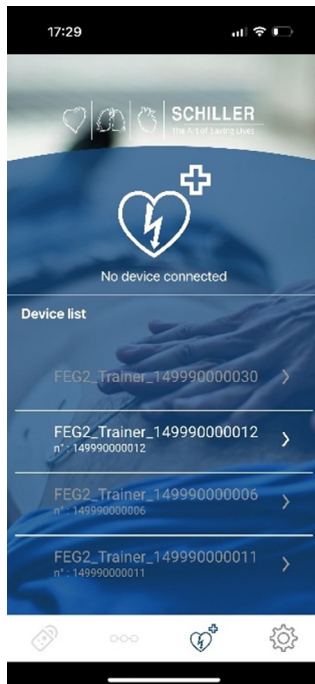
#### Switching Off



- Press the "ON/OFF" (1) button to enter in the stand by mode. The RTU LED will blink.
- Press the "ON/OFF" (1) button for 5 seconds to turn off the device.



### 2.3.2 Device-smartphone/tablet pairing to the FRED easy G2 Trainer

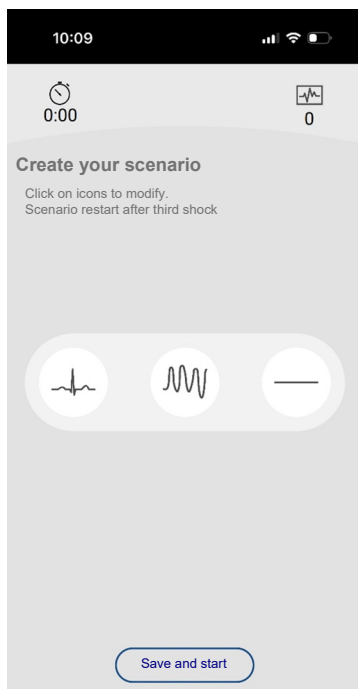


1. Once you turn on your FEG2 Trainer ("simulation" mode or "stand by" mode), it will automatically activate the Bluetooth and discoverable in the Bluetooth network.
2. Open the SCHILLER Defi training App on your smart-phone or tablet PC.



3. Select the icon the Device list  of Defi training application. Select the device you want to use in the list.
4. For additional information on the application, refer to the application: Settings  > Application > Help.

## 3 Training



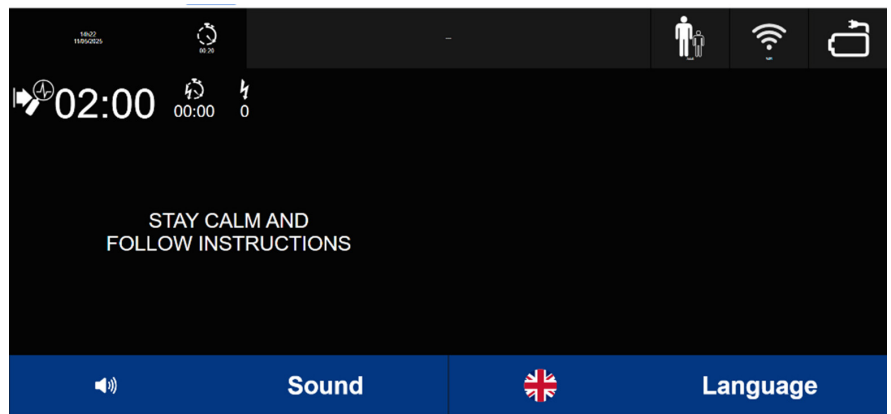
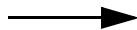
- As soon the FEG2 Trainer is switched on ("Simulation" mode), the voice prompt starts.
- Advise the trainee to follow the instruction from the device.
- The running AED algorithm can be paused during CPR via the Defi Training app by pressing the pause button and continue by pressing again the same button.
- When a scenario has been saved with the App, you must save and validate the modifications on the Defi Training app and then the FEG2 Trainer will restart.

## 3.1 Training procedure semi automated AED

- The following instructions comply with the scenario "shock recommended" and then twice shock not recommended. The scenarios can be selected and saved.

**Trainee starts by switching on the device**

As soon the connection to the App is established, you can press the On/Off button on the FEG2 Trainer to enter in the simulation mode and then the scenario will automatically start.



This will cause that the trainer starts with step 1.

- Stay calm and follow instructions
- Call emergency services
- Dial number written on the device
- Use only if patient is unresponsive
- Remove clothes from upper body - cut if necessary
- Check electrodes is correctly fitted into machine
- Trainer confirms that the above procedure was correctly performed by the trainee.
  - Otherwise, the instructions step 1 is repeated. After the thirteenth repetition, the instructions jump to step 14.
- Do not touch the patient analysis will begin
- Do not touch the patient analysing
- Shock advised
- Stand clear of patient
- Press orange button
  - now (if shock button is not pressed within 20 seconds it jumps to 14)
- Shock delivered
- Advise to do chest compression: according to configuration
- Repeat until next instruction (the next instruction starts with step 2) - After the instruction **No shock advised** (step 10), it jumps to step 14.

Trainer has to confirm correct performance with the button via Defi training application.



**Finishing resuscitation process?**

- To finish the resuscitation process and switch the device to stand by mode, the Green ON/OFF button (press 1 second).
- To turn off the device press the green ON/OFF button for 5 seconds).

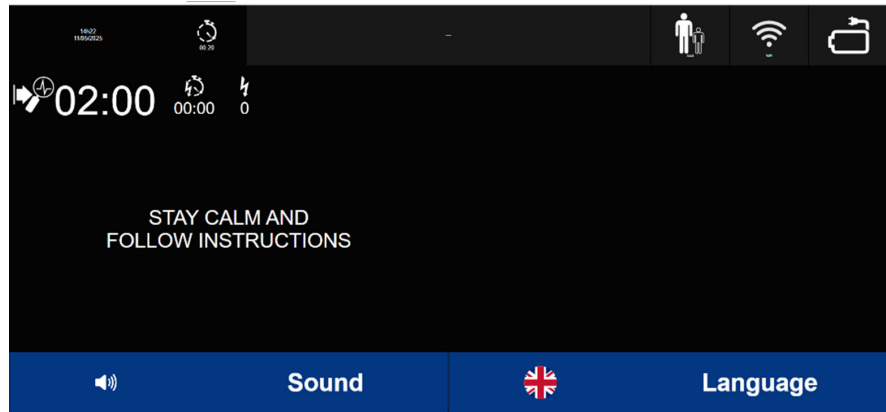
## 3.2 Training procedure fully automated AED



The following instructions comply with the scenario "shock recommended" and then shock not recommended.

### Trainee starts by switching on the device

As soon the connection to the App is established, you can press the On/Off button on the FEG2 Trainer to enter in the simulation mode and then the scenario will automatically start.



This will cause that the trainer starts with step 1.

1. Stay calm and follow instructions
2. Call emergency services
3. Dial number written on the device
4. Use only if patient is unresponsive
5. Remove clothes from upper body - cut if necessary
6. Check electrodes is correctly fitted into machine
7. Trainer confirms that the above procedure was correctly performed by the trainee. Otherwise, the instructions step 1 is repeated. After the thirteenth repetition, the instructions jump to step 14.
8. Do not touch the patient analysis will begin
9. Do not touch the patient analysing
10. Shock advised.
11. Stand clear of patient
12. Warning. The shock will be delivered.
13. 3...2...1... Shock delivered.
14. Advise to do chest compression: according to configuration
15. Repeat until next instruction (the next instruction starts with step 2) - After the instruction **No shock advised** (step 10), it jumps to step 14.

Trainer has to confirm correct performance with the button via Defi training application.



### Finishing resuscitation process

To finish the resuscitation process and switch the device to standby mode, press the Green ON/OFF button (press 1 second).

→ To turn off the device press the green ON/OFF button for 5 seconds.

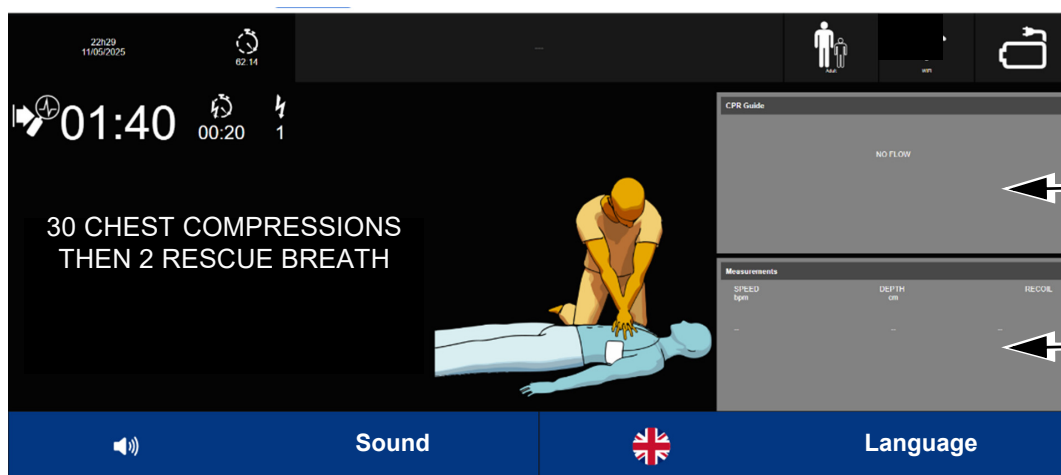
### 3.3 Training on thorax compressions (optional)



This training is only available with the ARGUS LifePoint CPR feedback sensor.



▲ The training with the Argus LifePoint sensor is only allowed on a chest manikin.



Text and voice advice to improve the CPR quality

Measured value from ARGUS LifePoint sensor

Metronome speed [min]	Press Faster	CPR OK	Press Slower
100	$\leq 90$	CPR OK	$\geq 120$
110	$\leq 100$	CPR OK	$\geq 130$
120	$\leq 110$	CPR OK	$\geq 140$
Depth [mm]	Press Deeper	CPR OK	Press Shallower
1-127	$\leq 45$	CPR OK	$\geq 62$

Recoil feedback Good or Bad

### 3.3.1 Setup of the sensor

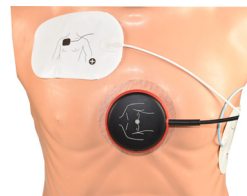
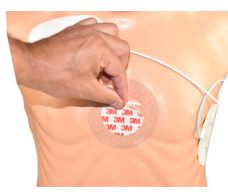
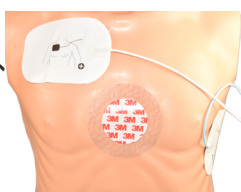
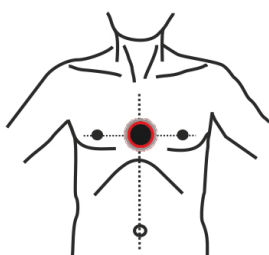


The recommended securing pads during real CPR keeps the LifePoint sensor in position. It is not always needed for training purpose.



1. Connect the LifePoint USB cable to the USB connector.
2. Switch on the device.
3. Activate the CPR display via the Defi Training app to receive feedback on the device screen.

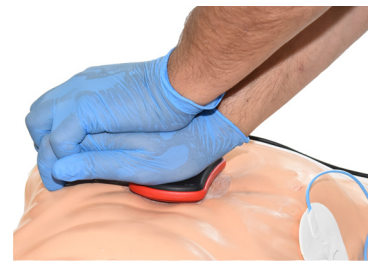
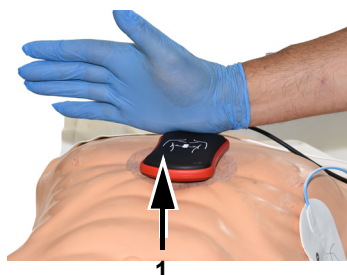
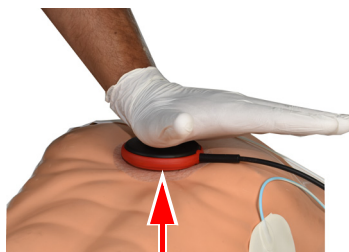
4. Attach the adhesive securing pad on the patient's chest and peel off the foil.
5. Place the LifePoint on the patient chest and start CPR.



hour glass sensor

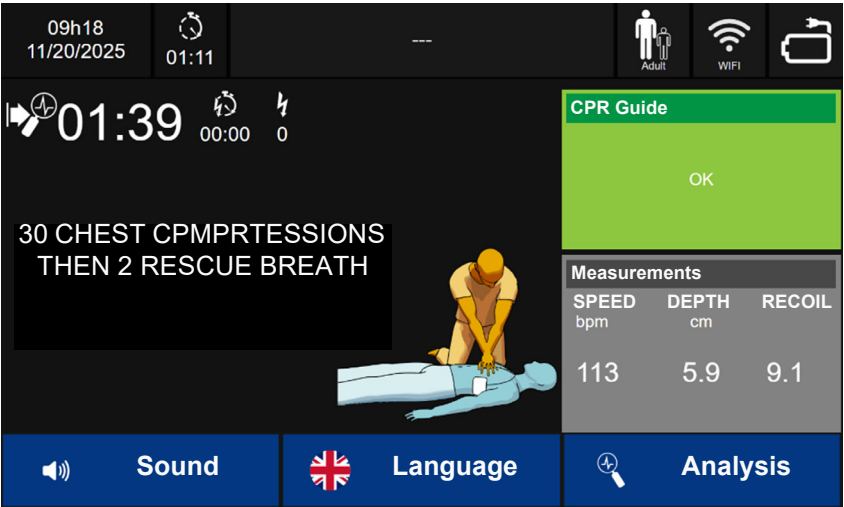


6. Place your hand on the sensor so that the heel of your hand (1) is in the middle of the sensor.



7. Start with CPR and monitor the compression quality on the device and follow the instructions given by the device (see page before).

8. The displayed measurements in the middle of the screen informs you about your CPR quality.



The following limits are set for speed  
depth and recoil:

Metronome speed [/min]	Press faster	Press slower
100	≤ 90	≥ 120
110	≤ 100	≥ 130
120	≤ 110	≥ 140

Depth [mm]	Press deeper	Press shallower
1 to 127	≤ 45	≥ 62

Recoil	
Good	Bad

## 3.4 Accessories and non-medical accessories



▲ Risk to Persons, Equipment Damage - Always use SCHILLER replacement parts and non-medical accessories, or products approved by SCHILLER. Failure to do so may endanger life and/or invalidate the warranty.

Your local representative stocks all the consumables and accessories for the FRED easy G2 Trainer. A full list of all SCHILLER representatives can be found on the SCHILLER website ([www.schiller.ch](http://www.schiller.ch)). In case of difficulty, contact SCHILLER. Our staff will be pleased to help process your order or to provide details for all SCHILLER products.

### 3.4.1 Order Information

#### Devices

Part No.	Description
1-149-9901	FRED easy G2 Trainer
2.230366/0-21-0019	1 Reusable training electrodes cable
2.230398/0-21-0031	1 Training electrode

#### Optional Accessories

Part No.	Description
2.100870	CPR Feedback Sensor ARGUS LifePoint 2
2.100519	CPR Feedback Sensor Securing Pads (5x)
6-17-0026	Angle USB adapter cable for Life Point CPR feedback pod

### 3.4.2 Required accessories

- User Guide
- 1 set of training electrodes
- 1 training electrodes cable
- 1 external power supply



## 3.5 Disposal information

### 3.5.1 Battery Disposal

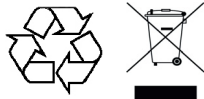


- ▲ Danger of explosion! The battery must not be incinerated, exposed to high temperatures or disposed of with household waste.
- ▲ Do not expose the battery to chemicals that could dissolve ABS, polypropylene, polyvinyl chloride, nickel, mylar or steel.
- ▲ Do not cut, destroy, or incinerate the battery.
- ▲ Danger of acid burns! Do not open or heat up the battery.



The battery is to be disposed of in municipally approved areas or sent back to SCHILLER.

### 3.5.2 Disposal at the end of its useful life



At the end of their service life, the device and its accessories must be recycled in compliance with local regulations. Apart from the internal and plug-in batteries, the device does not contain hazardous material and can be recycled like any other piece of electronic equipment. In accordance with national law, the battery must be disposed of at an appropriate waste disposal station or returned to SCHILLER.

According to European legislation, this device is considered as electronic waste equipment. It can be returned to the distributor or manufacturer where the device will be disposed of in compliance with legal requirements. The customer must bear the shipping costs. This unit must be disposed of in a municipally approved collection point or recycling centre when no longer used.

If no such collection point or recycling centre is available, you can return the unit to your distributor or the manufacturer for proper disposal. In this way, you contribute to the recycling and other forms of utilisation of old electrical and electronic equipment. Improper disposal harms the environment and human health due to the presence of dangerous substances in electrical and electronic equipment.

## 4 Technical Data

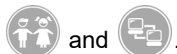
### 4.1 System Specifications

<b>Manufactured by</b>	MEDIVELOPMENT UG
<b>Device name</b>	FRED easy G2 Trainer
<b>Dimensions</b>	78 x 206 x 201 mm (h x l x w)
<b>Weight</b>	Approx. 1.3 kg with battery and accessories (Power supply, electrodes, electrode cable)
<b>Power supply</b>	
Voltage	7.4 V
Power consumption	max. 3 W
Runtime	approx. 12 hours depending of the used battery quality
<b>Environmental conditions</b>	
<b>Device</b>	
Operation	<ul style="list-style-type: none"><li>0...40 °C at a relative humidity of 30 to 95% (no condensation)</li></ul>
Storage before use	<ul style="list-style-type: none"><li>-20...50 °C with the battery inserted</li><li>Atmospheric pressure 700 to 1060 hPa / 0 to 3000 m</li></ul>
Storage and transport	<ul style="list-style-type: none"><li>-20 ... 50 °C at a relative humidity of 30 to 95% (no condensation)</li><li>Atmospheric pressure 500 to 1060 hPa</li></ul>
<b>Module</b>	Cypress CYW43455
<b>Bluetooth / Wi-Fi</b>	
FCC ID	2ABCB-RPICM4
IC ID	20953-RPICM4
<b>Transmission standards</b>	Bluetooth version 4.0 BR/LE Wifi IEEE 802.11 b/g/n/ac
<b>Frequency range</b>	Bluetooth 2.402 ... 2480 MHz Wifi 2.4 GHz, 5GHz
<b>Max. power output</b>	+4 dBm
<b>Conformity</b>	Hereby, the legal manufacturer declares that the radio equipment type FRED easy G2 Trainer is in compliance with Directive 2014/53/EU.  The full text of the EU declaration of conformity is available at the following internet address: <a href="https://www.schiller.ch/en/conformity">https://www.schiller.ch/en/conformity</a>

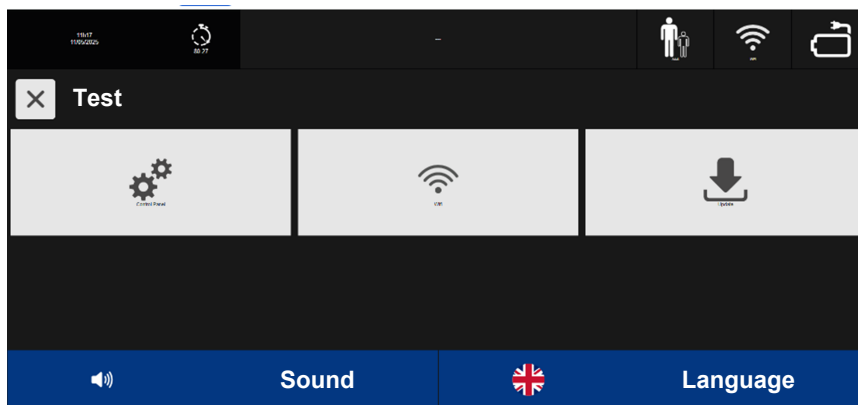
## 4.2 Access to the device setting menus

To get access to the settings:

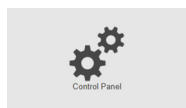
- Once you are in the simulation mode, Press and hold simultaneous the buttons



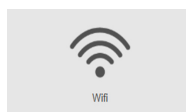
- The Settings menu appears



- Please note: This access code is only for the training organisation.



Use the **Control Panel** button to change the time/date of the device and restart the device with the default settings.



Use the **Wifi** button to connect the device to a Wifi spot from a list of Wifi networks.



Use the **Update** button to automatically update the device if necessary.

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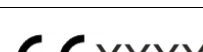






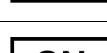
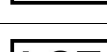
## T










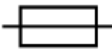
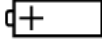










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## 6 Appendix - Symbols






This appendix lists all general symbols that may be present on the device, label and accessories. Not all of those symbols are necessarily present on your device.

This appendix has its own article number, which is independent of the user guide's article number.

	Manufacturer information
	Country of manufacturer
	Manufacturing date
	Distributor
	Importer
	Authorised Representative in the Switzerland
	Authorised Representative in the European Community
	CE marking, affirms its conformity with European standards
	Notified body (e.g.  0459 marking notified body GMED)
	UKCA marking (UK Conformity Assessed)
	Regulatory Compliance Mark for the Australian standards
	NRTL symbol (Nationally Recognised Testing Laboratory) TÜV SÜD as accredited NRTL certification provider
	Medical device
	Reference number
	Serial number
	Batch code

	UDI: unique device identification as QR code machine readable and human readable as number (e.g.  (01) 0 7613365 00210 2 (21)xxxx.xxxxxx )
	Global Trade Item Number
	Quantity
	EIP = electronic information product (does not contain any toxic and hazardous substances or elements above the maximum concentration values (product can be recycled and re-used))
	Electrical and electronic equipment. The device must not be disposed of in the household waste
	Battery. Battery must not be disposed of with domestic refuse
	Direct current
	Alternating current
	Fuse
	Positioning of primary battery
 	Rechargeable battery
	Do not dispose in fire
	Do not deform or damage
	Do not open or dismantle
	Do not short circuit
	Do not charge
	Non-ionizing electromagnetic radiation. To indicate that the device contains a Radio Frequency (RF) transmitter to transmit data (e.g. Bluetooth or WiFi)
	Universal Serial Bus (USB) port/plug
	Contains a Bluetooth module

	Read the instruction for use
	Monitor
	Defibrillator
	Humidity limitation for storage and transport, respectively
	Atmospheric pressure limitation for storage and transport, respectively
	Temperature limit for storage and transport, respectively
	Keep dry
	Keep away from sunlight
	Do not re-use
	Do not use if package is damaged
	Fragile, handle with care
	Handle with care
	Transport upwards (This way up)
	Expiry date (for battery, electrodes or other consumables)
	Packaging unit
	Eco packaging
	The unit/component can be recycled
	Recyclable/renewable – Low-density polyethylene
	Warning

	For electrical hazards, warning or precautionary measures when dealing with electricity
	Dangerous voltage. Used for electrical dangers during defibrillation
	Use no hooks
	BF symbol. The device signal input is defibrillation protected
	Signal input type CF. Highly isolated port, defibrillation protected. However, it is only defibrillation protected when used with the original SCHILLER patient cable
IPXX	Ingress Protection Code