



# FlexPulse G2

Portable PEMF System



## Operating Manual

451600-0512 Version 01

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**The FlexPulse-G2 is a portable Pulsed Electro-Magnetic Field (PEMF) system including coil applicators. The coil applicator transfers the magnetic field to the user.**



## **Safety Instructions**



**Please read the following instructions carefully before using the FlexPulse G2.**

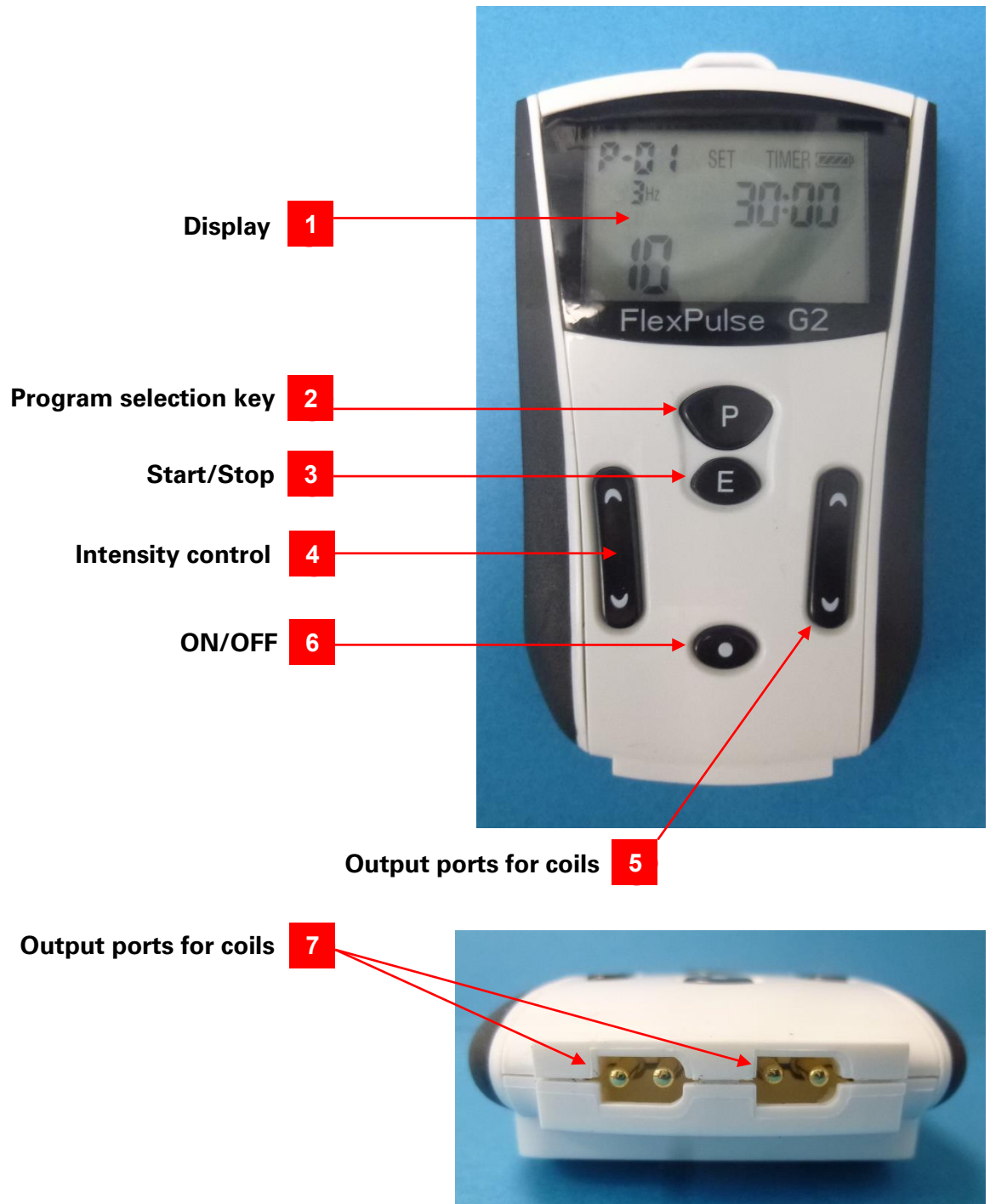
- **Warning:** In the following cases the FlexPulse G2 should not be used without prior consultation with a doctor, having explicitly talked about the following risks:
  - When you have implanted metal or electrical devices including pacemakers, cochlear implants, intrathecal pumps, etc.
  - PEMFs have not been proven safe for pregnant women.
  - People with overactive adrenal or thyroid glands should use PEMFs with caution, as glands can become over-stimulated and fatigued.
  - Conditions with active bleeding should be controlled before PEMFs are applied.
  - Users known to be especially vulnerable to cardiac rhythm disturbances should exercise caution when using high intensity PEMFs near the head.
- Never use the product if it functions incorrectly or has been damaged.
- Technical checks and repairs may only be performed by qualified and authorized persons.
- Only use the FlexPulse G2 with original accessories. The use of other accessories may lead to a deficient operation and/or will damage the control unit.
- Keep the product away from water and other liquids as this may cause unpredictable current flows and will damage the product.
- Do not allow the product to be dropped or handled incorrectly. Only use at temperature between 50 F (10 C) and 104 F (40 C), at a relative humidity between 30% and 90% and an air pressure between 70 kPa and 106 kPa. Do not use the product in a bathroom or similar humid environment.
- Do not operate the product in the vicinity of explosive and/or flammable substances or steam.
- Keep credit cards, car keys, and smart watches at least 12" (30 cm) away from the coils.
- **Caution:** If you expose the product to sudden temperature changes from cold to warm, do not turn on the product until it reaches the same temperature as the environment in which it will be used; wait at least 30 minutes before using the product.
- **Warning:** Keep a minimum distance of 12" (30 cm) between the unit, applicators, and wires from a high frequency communication device (mobile phone or a radio device including their accessories such as antenna cable or external antenna). This may result in a reduction of the device's performance characteristics and a deficient operation.
- **Caution:** The FlexPulse G2 should not be operated in the vicinity of other electronic devices since this can potentially interfere with either equipment. For long term storage, use the original packaging to protect it against damage and soiling.

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## Operating Elements



## Technical Information

### Description of the symbols

Attention: Read accompanying documents, especially instructions for use!



**Manufacturer**



**Date of manufacture**



**Catalogue number**



**Serial number**



**Protective class III device:**  
Device that operates with safety extra-low voltage



**Environment**  
Do not dispose of the appliance with the normal household waste but hand it in at an official collection point for recycling. By doing this you will help to protect the environment.



By labelling with CE mark, the manufacturer asserts that the product fulfills all relevant requirements of the respective EC Directives. A conformation assessment process has been successfully completed.



Reading the instructions for use is necessary for the safe use of the device.



**Attention!**  
The product presents non-obvious risks. Observe the safety precautions contained in the instruction for use!



Keep water and liquids away from the product.



Only operate the product within the temperature conditions mentioned at this symbol.



**Direct current (DC)/ continuous current**



**Alternating current (AC)**

### Technical specification

The FlexPulse G2 is a Pulsed Electro-Magnetic Field (PEMF) system with 200-300 Gauss (peak) output and 10 programs with different frequencies.

Pulsed Magnetic Field Output	200-300 Gauss (Peak)
Frequency range	3- 1000 Hz
Impulse width	10-100 $\mu$ s
Maximal current (P10 = 1000 Hz)	170 mA
Power supply	integrated rechargeable battery LiPo 3.7 V
Dimensions	11.5 x 6.5 x 2.5 cm
Weight	approx. 120 g

## Operating the FlexPulse G2

The battery of new FlexPulse G2 unit needs to be charged before first use. Please read the chapter "charging the battery" on page 5.

### Connecting the magnetic field coil

Connect the cable(s) of one or two coils to the FlexPulse G2. Make sure that the plugs line up with the ports from the unit. It may be best to line up the bottom edge of the coil plug with the bottom edge of the port and then "hinge" it into the port before fully inserting the plug.

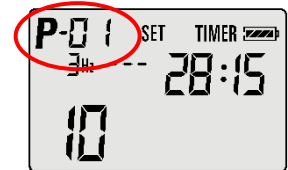
### Switching the unit ON

Push the ON/OFF button .



The program, which was used during the previous session, is shown on the display. The intensity value is flashing. If no program is running and no key is pressed for 120 seconds, the device turns off automatically.

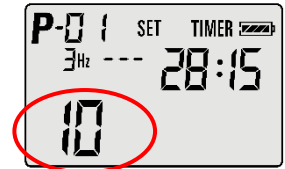
### Selecting a program

Select a program by pressing the **P** key. To scroll through the programs, press the **P** key as often as necessary until you have selected the program of your choice. Programs may be reset during operation by pressing the **P** key again, but the timer will have to be reset too. The programs are: P01-3Hz, P02-7.83Hz, P03-10Hz, P04-14Hz, P05-23Hz, P06-40Hz, P7-50Hz, P8-60Hz, P9-10Hz/100Hz (alternating every minute), P10-999 (=1000) Hz.





### Setting the intensity

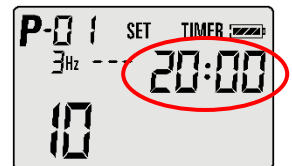
Increase and decrease the intensity with left  and  keys. The intensity is displayed on the screen. The default is 10. The intensity can be set between level 1 and level 10. By keeping the intensity keys pressed, the intensity will increase/decrease more rapidly.



Note: Duration of battery operation depends on intensity. Higher intensities will drain the battery faster, especially with the higher frequency programs.

### Setting the program time

All 10 programs have a 30 minute default time. To change the program time, use the right  /  keys. You can change it from 10 min to 20 min, 30 min, 40 min, 50 min, 1 h, 2 h, 4 h, 6 h or continually. In continuous mode the display will show "cont".





### Starting the program

Push the **E** key to start the program. The intensity display will stop flashing. If the program is not running, the intensity value is flashing. When the stimulation time is completed the stimulation terminates automatically and the device will beep three times.

### Stopping the program

You can stop the program by pressing the **E** key for 4 seconds. The unit will reset to the default time and intensity and to the last used program.

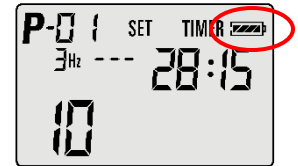
### Switching the unit OFF

Push the ON/OFF button  and hold for 4 seconds, there will be 4 beeps. When the  button is released after that, the screen will turn off.

If the battery level is too low, the battery symbol flashes 3 times and turns to standby automatically. Time to recharge the battery.

## Charging the Battery

The battery level is shown on the display with a battery symbol with 4 lines. If the battery level is too low, the unit automatically switches to standby.



When the battery needs to be re-charged. The battery can be recharged at any time without being fully depleted. Before recharging turn off any programs and turn off the unit if it is not already off.

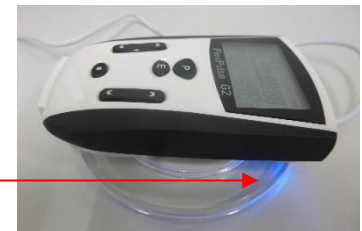
- Connect the wireless charger station with the power adapter and the charging cable.



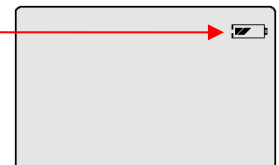
- Connect the power adapter to an AC outlet and the diode on the charger station illuminates red.



- Place the FlexPulse G2 on the charger station. the charger station illuminates and pulses blue.



- The charging process starts automatically, and the battery symbol appears on the display.



- The battery symbol pulses while it is charging.
- At the end of the charging process, all bars in the battery symbol are on steadily for 20 seconds.
- The battery is fully charged if the battery symbol has reached 4 bars and no longer pulsing.
- It is normal for the back of the FlexPulse G2 to feel hot after recharging. The longer it is left recharging the hotter it may be likely to feel. It will be best not to place the back of the hot



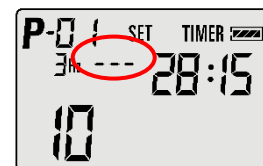
control unit against the skin until it has cooled sufficiently.

- Normal recharging time will depend on how depleted the battery is when recharging is initiated.
- It is best to remove the control unit from the charger as soon it is fully recharged, rather than leaving it on charging mode for extended periods of time.

Note: The battery will NOT charge when running a program.

## Coil Detection

If a coil is correctly connected to the device, “---” will be shown on the display. The device will beep twice if you try to start a program without a coil connected. A program will not run without at least one coil connected.



**PLEASE NOTE: when 2 coils are plugged in, the full power of FlexPulse G2 control unit transmitted to the coils will be divided in half at the intensity selected. In other words, using only one coil will provide the full power to that single coil.**

## Magnetic Field Tester

The magnetic field tester is included so you may periodically test that the coils are still functional, especially if you are unable to hear them “clicking”

To use the tester, begin a FlexPulse program using intensity 10. Place the magnetic field tester directly over the active coil. Observe as the light below “RUN” flashes. The light will flash in sync with the chosen frequency program.

The light is most easily visible when looked at from directly above and in low light conditions.



## Coil Maintenance

- The coils are subject to discoloration due to perspiration, lubricants and chemicals applied to the skin and exposure to water, other fluids, and humidity. This is normal “wear and tear.”
- It is important not to pull on the coil wires when repositioning the coil paddles or pulling the plug out of the control unit socket.
- Wear and tear on the coils will result from repeated bending the coils at right angles, crimping, positioning against hard edges or 180° angles.
- Do not attempt to splice or cut and reattach coil wires. This will void the warranty.

## Coil Placement

Although the FlexPulse allows 2 coils to be used simultaneously, it is preferable to use only one coil at a time. When two coils are used, the magnetic field intensity drops significantly, and the battery will drain more quickly.

The coil should be placed so that the side with the large circle label is towards the body.

The possibilities for placement depend on the treatment intention of the individual. For example, if treating the knee, place the coil on one side of the knee. The same approach to placement can

be considered for any part of the body, including the neck or the head. For the back, chest, abdomen or pelvic areas, coils can be placed centered on the problem area.

Coils may be placed directly on the skin or over clothing. Coils must be secured by the individual using a method most appropriate for placement and lifestyle. Braces, bandages, athletic tape, and sweat bands are all examples of items commonly used to secure coils.

Examples:



## Description of the Programs

The FlexPulse G2 has 10 programs. Maximum intensity values apply when only one coil is plugged into the unit. When both coils are plugged in, maximum intensity values are equally distributed between the two coils.

**Please note: The default time is set for 30 minutes for all programs.**

**Program P1:**

Frequency: 3 Hz

Maximum Intensity (level 10): 200 Gauss, (300 Gauss with one coil)

**Program P2:**

Frequency: 7.8 Hz

Maximum Intensity (level 10): 200 Gauss, (300 Gauss with one coil)

**Program P3:**

Frequency: 10 Hz

Maximum Intensity (level 10): 200 Gauss, (300 Gauss with one coil)

**Program P4:**

Frequency: 14 Hz

Maximum Intensity (level 10): 150 Gauss

**Program P5:**

Frequency: 23 Hz

Maximum Intensity (level 10): 150 Gauss

**Program P6:**

Frequency: 40 Hz

Maximum Intensity (level 10): 100 Gauss

**Program P7:**

Frequency: 50 Hz

Maximum Intensity (level 10): 100 Gauss

**Program P8:**

Frequency: 60 Hz

Maximum Intensity (level 10): 100 Gauss

**Program P9:**

Sequence 1: 1 minute      Frequency: 10 Hz

Sequence 2: 1 minute      Frequency: 100 Hz

Sequences repeat until programmed time has elapsed

Maximum Intensity (level 10, 10 Hz): 200 Gauss

Maximum Intensity (level 10, 100 Hz): 100 Gauss

**Program P10:**

Frequency: 999 (=1000) Hz

Maximum Intensity (level 10): 40 Gauss

## General Information

### Adjustments, modifications and repairs

The manufacturer is only responsible for the safety and performance of the FlexPulse G2 when readjustments, alterations and repairs are carried out by authorized persons and when the FlexPulse G2 is used in accordance with the instructions for use.

### Warranty

The manufacturer issues a warranty of 24 months for the control unit and charger and 6 months for the coil applicators.

The warranty does not apply in the following cases:

- damage due to improper handling
- defects the customer is aware of on the date of purchase
- damage caused by the customer or other users
- discoloration of the coils
- lead wire pulling away from the coil

### Maintenance and cleaning

When soiled, clean the unit with a soft, fluff-free cloth. No special cleaning or care agents are required for the FlexPulse G2. Please ensure that no moisture permeates the unit. If moisture does permeate the unit, a technical check must be carried out before re-use.

### Classification

The FlexPulse G2 is classified as a protective class III device according to IEC 61140:2016.

### Delivery content

<u>Item. No.</u>	<u>Article</u>	<u>Quantity</u>
462409-09900A	FlexPulse G2	1
462202-09900B	Coil 1.0 m	2
104797	Power Adapter US-Version	1
104795	Charging cable	1
104794	Wireless charging station	1
462203	Magnetic Field Tester	1
450980-0178	Travel case	1
451600-0512	Instructions for use	1
105678	Belt Case	1

## Accessories



**Belt Case (No. 105678)**

**Power Adapter US (No. 104797)**


**Coil Applicator (No. 462202)**

**Wireless Charger Station (No. 104794)**

## Reference Sheet for Battery Retraction and Disposal

In connection with the sales of products which contain batteries or rechargeable batteries, we are obliged by law (German battery law § 18, section 1) to advise you of the following:



The dustbin symbol (  ) marks batteries with hazardous substances as well as the circumstance that batteries must not be disposed of in the household waste but professionally. The chemical term of the hazardous substance is below the dustbin symbol.

You are obliged by law to return used batteries.

You may render used batteries at municipal collecting points or in local trade. We are also obliged to take back used batteries, whereat our obligation restricts to those which are or were part of our product range.

Therefore, you may send back used batteries to us adequately stamped by mail or render these at our warehouse free of charge at the following address:

Pierenkemper GmbH, Dreieiche 7, 35630 Ehringshausen, Germany

Manufacturer:

Pierenkemper GmbH  
Am Geiersberg 6  
35630 Ehringshausen  
Germany  
[www.pierenkemper.eu](http://www.pierenkemper.eu)



Instructions for use  
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