



MODULO MODULO PLUS

ELECTROTHERAPY

fisioline®
biomedical instrumentation

Modulo and **Modulo Plus** have been designed in response to an increase demand for electrotherapy devices that can be easy to use and able to comply with different therapeutic requirements.

Modulo has two completely independent stimulation channels, electrically insulated from one another.

Modulo Plus has four completely independent stimulation channels, electrically insulated from one another.

Stimulation is controlled in current (CC) and voltage (CV). Each protocol can consist of a sequence of up to 4 phases and each phase can use a different shape of wave.

Modulo and **Modulo Plus** offer the operator the possibility, upon stimulation, of adjusting the current intensity of the single channel or of all of them at the same time.



TECHNOLOGY AND DESIGN

Modulo and **Modulo Plus** work plugged to the mains or with a battery. They are devices simple to use, equipped with a wide 7" color touch-screen display allowing the operator to keep all functions under control.

The pleasant design and the user's interface equipped with touch-screen have a decidedly modern and professional look.

The high generated current (over 120 mA) makes **Modulo** and **Modulo Plus** two of the most powerful devices of their category.



OPERATING MODES AND AVAILABLE CURRENTS:

- Stimulation of the normally innervated muscle:** balanced two-phase square wave, two-phase triangular wave, Kotz currents and physiological pulse.
- Stimulation of the denervated muscle:** exponential single- phase and two-phase wave, single phase and two-phase triangular wave, partially denervated.
- Antalgic currents:** Diodynamic (Single-phase, syncopated single-phase, diphasic, syncopated diphasic, short period and long period), Interferential (Bipolar, Isoplanar, Tetrapolar and Vectorial), AMF, TENS, rectangular wave and Spike (Continuous, Burst and Random), Faradic, (Rectangular, Triangular, Exponential, Neofaradic and Traebert).
- Vehication currents:** Ionophoresis, Iontophoresis, basic Galvanic current and Continuous Interrupted.
- Electrostimulation for Sports Medicine:** balanced two-phase square wave with automatic variation of the stimulation frequency, two-phase triangular wave, Kotz currents and physiological pulse.
- Urological stimulation:** two-phase square wave, two-phase triangular wave, physiological pulse.
- High voltage electrotherapy:** positive single-phase wave, negative single-phase wave (possibility of polarity inversion).
 - Microcurrent electrotherapy (MET):** positive wave, negative wave, bipolar wave. The microcurrent electrotherapy, indicated to relieve pain, uses a low level current (microampere) emitted with long impulses compared to the TENS current. Unlike the latter, that have to be used in continuity to have prolonged effects, the microcurrents offer lasting and cumulative in time benefits.
 - Diagnostics:** I/T curve innervated and denervated with calculation of chronaxie and reobasis. Square and exponential wave.



SMART INTERFACE WITH TOUCH SCREEN DISPLAY

The interface of **Modulo** and **Modulo Plus** displays the parameters on a **large color display** that allows to **remotely read** and gives to the operator the possibility of **selecting, modifying and keeping always under control** the functions and the working parameters.

A unique feature of **Modulo** and **Modulo Plus** is the **Wizard**, a **step-by-step digital guide** to use the device.

Thanks to an **intuitive software**, the Wizard leads the operator in selecting the therapeutic preset protocols focused on **severe and chronic pathologies**.

PRESET PROTOCOLS

Large database of preset protocols: more than 200

RAPID RESEARCH WITH THE INNER FINDER

for pathology, n. of program, body area

SELECTION FREE PROTOCOL

free setting of all emission parameters

CREATION OF PERSONALIZED PROGRAMS

data saving, 150 free storage locations, multiphase programs up to 4 phases

UPGRADABLE VIA USB PORT

Available Modulo Plus Pro version with KIT FOR ELECTROPORATION and KIT FOR DRAINAGE

TECHNICAL FEATURES

- MODELS: MODULO and MODULO PLUS.
- COMMERCIAL CLASSIFICATION: neuromuscular stimulator for electrotherapy.
- TECHNICAL CLASSIFICATION: electromedical device, class II type B.
- MEDICAL DEVICE CLASS: IIa (Dir. 93/42/EEC, modified by the Directive 2007/47/EC).
- REFERENCE STANDARDS: EN 60601-1, EN 60601-2-10, EN 60601- 1-2, EN 60601-1-6.
- SIZE: 208x306x140mm.
- WEIGHT: 1,7Kg.
- MAINS POWER SUPPLY (EXTERNAL MEDICAL POWER SUPPLY):
 - Power supply voltage 90÷240V.
 - Line frequency: 50-60 Hz.
 - Absorbed power: 60W.
- BATTERY POWER SUPPLY: Lithium ion (optional).
- STIMULATION CHANNELS:
 - MODULO: 2 completely independent and electrically insulated channels.
 - MODULO PLUS: 4 completely independent and electrically insulated channels.
- OUTPUT STAGE: controlled in CC current and CV voltage.
- CURRENT OUTPUT: 120mA max (depending on the type of current).
- INTERFACE: 7" color touch-screen DISPLAY.
- TIMING: treatment duration setting 1 to 60 min.
- ACOUSTIC SIGNAL at the end of treatment.
- OPTIONAL ACCESSORIES:
 - rechargeable battery (Lithium ion)
 - roller electrode
 - pencil electrode
 - kit for high voltage
 - kit for microcurrents
 - single patient urological probes
 - trolley model DINAMICO
 - soft case
- **CE MARK**: device complying with Directive 93/42/EEC, modified by the Directive 2007/47/EC.



FISIOLINE® instruments are covered by UNIPOLSAI product liability insurance.

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