

## Multitronic MT-4



### Product description

Double-therapy unit for electrotherapy and lasertherapy

### GENERAL CHARACTERISTICS

- Modern device for double-channel electrotherapy and laser biostimulation
- Two possible treatments at the same time
- Big, color graphic screen (4,3") with touch panel.
- User-friendly operation by touch screen and buttons.
- Ergonomic treatment probes
- Convenient probe holder
- Esthetic design
- Ready to use programs for typical illnesses
- User's own programs - with easy to use screen keyboard
- Individual regulation of all treatment parameters
- Function of fan control which minimizes energy consumption and generated noise
- Counters of number and time of treatments
- May be used as portable

### ACCESSORIES

#### Standard

- User's manual
- Set of electrodes, pads, fixing bands
- Electrotherapy treatment cable
- Spare fuses
- Warning labels

#### Optional

- Laser probes: point and cluster models
- Protective eyewear for laser treatments
- Different types of electrodes and other electrotherapy accessories
- Transportation bag

### Technical data

#### General parameters

power supply  
electric safety class  
ambient temperature  
relative humidity  
dimensions  
weight (of control unit)

1-phase net ~230V 10%, 50Hz, 70VA  
I type BF  
10°C - 40°C  
do 85%  
335 x 270 x 125 mm  
3.1 kg

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## Electrotherapy

### Electrotherapy features

- Two independent treatment circuits
- CC or CV workmode
- Microcurrents mode
- Setting of different wave modulations (electro-gymnastics)
- Setting of sequence of diodynamic currents
- Electrode test function
- User friendly electro-diagnoses (I/t curve points, automatic calculation of coefficients); last 5 tests are stored in memory
- Safe reaction to power supply disruption
- Detection of break in treatment circuit

### Allows treatments with the following current types:

- **Interferential**: static (clasic), dynamic, izoplanar, dipol vector, 2-pole (premodulated) and interrupted
- **Diadynamic** according to Bernard, types DF, MF, RS, MM, CP, LP, CPiso, LPiso (with sequence setting)
- **Paresis stimulation** (medium frequency currents in shape of triangle, rectangle, sine and trapezoid – each unipolar and bipolar)
- **Spastic paresis stimulation** in double-channel mode (tonolysis)
- **TENS**, including so called "irritating" modulation
- **TENS BURST**
- **HVPS** stimulation
- **Kotz current** (Russian stimulation)
- **Träbert current** - Ultra Reiz - (UR) (2-5)
- **Microcurrent**
- **CC or CV** mode
- **Faradic and neofaradic**
- **Wave modulation** or **electrogymnastics** with wide regulation range
- **Ionthophoresis**
- **Galvanic / DC**

### Current parameters

DIADYNAMIC	
average current for DF	0-40 mA
average current for MF	0-20 mA
INTERFERENTIAL	
RMS intensity	0-60 mA
interferential frequency	1-200 Hz
Medium frequency stimulation	
amplitude of current	0-100 mA
amplitude of pulse (tonolysis)	0-100 mA
impulse width	5-990 ms
break time	100-4000 ms
delay time (tonolysis)	5-150 ms
WAVE / ELECTROGYMNASTICS	
impulse time	0,5 - 60s
break time	1 - 60s
rise and fall time	0 - 100%
TENS, HVPS	
amplitude of current	0-100 mA
frequency	1-200 Hz
impulse time	50-300 µs
KOTZ / Russian stimulation	
amplitude of current	0-100 mA
TRÄBERT / Ultra Reiz	
amplitude of current	0-100 mA
GALVANIC / DC	
average current	0-50 mA
MICROCURRENTS	
amplitude of current	0-1000 µA

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CV mode voltage	0-100 V
voltage for TENS	0-140 V

## Lasertherapy

### Lasertherapy features

- Continuous and pulsed work mode
- Repeat dose function
- Sensor for power check of probes

### Lasertherapy parameters

class of laser	3B
timer	30sec - 30min

### Laser point probes

Type of probe:	<a href="#">S-1N</a>	<a href="#">S-2N</a>	<a href="#">S-2B</a>	<a href="#">S-3N</a>
Wavelength	905 nm	660 nm	660 nm	808 nm
Pulse power	50 W	40 mW	80 mW	400 mW
Frequency	5-5000Hz	5-9999Hz	5-9999Hz	5-9999Hz
Mean power	(1-50)mW	(1-40)mW	(1-80)mW	(1-400)mW
Pulse energy	10 µJ	----	----	----
Width of pulse	200ns	----	----	----

### Laser cluster probes

Type of probe:	<a href="#">SP-1B</a>	<a href="#">SP-2B</a>	<a href="#">SP-3</a>
Wavelength	660 nm	660 nm / 808 nm	808 nm
Number of diodes	9	5 / 4	9
Single diode power	40 mW	40 mW / 160 mW	160 mW
Total power	720 mW	1040 mW	1440 mW
Frequency	5-9999Hz	5-9999Hz	5-9999Hz
Area of treatment	50 cm <sup>2</sup>	50 cm <sup>2</sup>	50 cm <sup>2</sup>