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
- Esthethic 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 consuption 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	1-phase net ~230V 10%, 50Hz, 70VA
electric safety class	I type BF
ambient temperature	10°C - 40°C
relative humidity	do 85%
dimensions	335 x 270 x 125 mm
weight (of control unit)	3.1 kg

Electrotherapy

Electrotherapy features

- Two independent treatment circuits
- CC or CV workmode
- Microcurrents mode
- Setting of different wave modulations (electro-gymnastics)
- Setting of sequence of diadynamic currents
- Electrode test function
- User friendly electro-diagnostics (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 unipolr 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

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:	S-1N	S-2N	S-2B	S-3N
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:	SP-1B	SP-2B	SP-3
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 cm2	50 cm2	50 cm2