

electrotherapy, ultrasound therapy, combined therapy, laser therapy and magnetotherapy unit



ERGONOMICS

- three completely independent treatment channels
- operation mode: program/ manual
- preset treatment program and sequence base
- statistics – the number of performed treatments
- encyclopedia with treatment methodology description
- treatment programs chosen by name or medical field
- concise list of favorite programs
- buzzer volume setting
- possibility of edition the names of user-defined programs and sequences
- self-test – systematic control of the unit
- 7" color touchscreen
- real time clock
- model PHG 701I – battery unit

ELECTROTHERAPY

- operation in CC (stabilized output current) and CV (stabilized output voltage) modes
- electrodes test
- generation of unidirectional (unipolar) currents in interrupted mode
- complete galvanic isolation between channels in each mode

CURRENTS

- interferential (dynamic, isoplanar, one-channel (AMF))
- TENS (symmetric, asymmetric, alternating, burst)
- TENS to spastic paralysis therapy
- Kotz'/ Russian stimulation
- tonolysis
- diadynamic (MF, DF, CP, CP-ISO, LP)
- pulse – rectangular, triangular
- Trabert pulse, Leduc' pulse

- unipolar sine surge
- galvanic
- microcurrents

ELECTRODIAGNOSTICS

- electrodiagnostics with graphic presentation of I/t curve
- automatic calculation of rheobase, chronaxie as well as accommodation coefficient

ULTRASOUND THERAPY

- operation frequency 1 MHz/3,5 MHz
- effective radiation area 1 cm² and 4 cm²
- continuous emission – thermal effect
- pulse emission – micro massage effect
- ultrasound heads provided with the contact control connected to treatment timer
- precise control over the ultrasound wave emission during performed treatment
- head sensitivity calibration
- automatic control of emitted power

COMBINATION THERAPY

- operation in CC (stabilized output current) and CV (stabilized output voltage) modes
- operation frequency 1 MHz/3,5 MHz
- effective radiation area 1 cm² and 4 cm²
- continuous emission – thermal effect
- pulse emission – micro massage effect
- ultrasound heads provided with the contact control connected to treatment timer
- precise control over the ultrasound wave emission during performed treatment
- head sensitivity calibration
- automatic control of emitted power

CURRENTS

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LASER THERAPY

- laser radiation emission in continuous and pulse mode
- regulation of laser power radiation
- automatic laser power measurement test
- optical fiber applicators for laserpuncture and special applications (laryngology, dentistry, etc)
- frequency and duty factor regulation in pulse mode for point probes and cluster laser applicator
- frequency regulation for scanning laser applicators
- treatment area irradiation modes for scanning laser applicators
- automatic treatment time calculation on the basis of treatment parameters – dosage, power, duty factor, treatment area

MAGNETOTERAPIA

- optional – magnetic field application with the use of one or two coupled applicators
- convenient fastening of applicators by velcro belts
- field type: sine, triangular, rectangular, half sine, half triangular, half rectangular
- continuous and pulse emission
- wide range of frequencies

MANUAL MODE

complete control over parameters for advanced users

TREATMENT PROGRAMS

- 420 preset treatment programs
- 400 user-defined programs
- 420 favorite programs
- 30 programs with Voll frequency
- 8 programs with Nogier frequency

TREATMENT SEQUENCES

- 38 preset treatment sequences for electrotherapy
- 10 user-defined sequences for electrotherapy

TECHNICAL SPECIFICATION

- controller – max constant current in patient's circuit (CC mode)
 - galvanic – 40 mA
 - diadynamic, pulse – 60 mA
 - interferential, Kotz, unipolar sine surge – 100 mA
 - TENS – 140 mA
 - tonololysis – 100 mA
 - microcurrents – 1000 µA
- max voltage in patient's circuit (CV mode) – 140 V

- max ultrasound wave intensity in continuous/ pulse mode – 2/ 3 W/cm²
- pulse frequency – 16 Hz, 48 Hz, 100 Hz
- duty factor for pulse mode – 5 – 75 %, step 5 %
- laser device class – 3B
- max. magnetic field induction – 10 mT (100 Gs)
- battery – Li-Ion
- battery capacity – 2250 mAh
- mains supply – 230 V, 50/60 Hz, max 75 W, 90 VA
- dimensions – 34x28x11-16 cm
- weight – 6 kg

STANDARD ACCESSORIES

- ultrasound head 1/3,5 MHz, 4 cm² with holder
- mains cable
- patient's cable (2 pcs)
- electrotherapy electrodes 6x6 cm (4 pcs); 7,5x9 cm (2 pcs)
- viscose electrode covers 6x6 cm (8 pcs); 7,5x9 cm (4 pcs)
- velcro fixing belts 40x10 cm (2 pcs); 100x10 cm (2 pcs)
- gel 500 g (1 pc)
- spare fuses WTA-T1 A/250 V (2 pcs)
- DOOR remote connector (1pc)
- laser warning labels (1 set)
- touchscreen stylus pen (1 pcs)
- touchscreen cleaning cloth (1 pcs)
- masking covers with cutout (2 pcs)

OPTIONAL ACCESSORIES

- disposable self-adhesive electrodes 5x5 cm, 5x10 cm
- point electrodes 6 mm, 10 mm, 15 mm, 20 mm
- crocodile clip
- sand-filled bag 21x14 cm, 21x28 cm
- ultrasound head 1/3,5 MHz, 1 cm² with holder
- point probe R 660 nm/80 mW with holder
- point probe IR 808 nm/400 mW with holder
- scanning applicator R + IR 100 mW + 450 mW with a stand
- cluster laser applicator CL1800 5R x 40 mW + 4IR x 400 mW with holder
- protective goggles
- optical fiber applicator, straight, Ø 6 mm
- optical fiber applicator, angled 45°, Ø 6 mm
- optical fiber applicator, angled 45°, Ø 6 mm narrowed for laser puncture
- fiber holder Ø 6 mm
- stand for cluster laser applicator
- magnetic field applicator – CPE type with covers
- magnet
- patient's stop switch
- PRO bag for the unit and accessories
- Versa trolley
- battery