

electrotherapy, ultrasound therapy and combined therapy unit



ERGONOMICS

- three completely independent treatment channels
- operation mode: program/ manual
- preset treatment program and sequence base
- statistics
- encyclopedia with treatment methodology description
- treatment programs chosen by name or medical field
- concise list of favorite programs and sequences
- 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 301A – 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 threshold, coefficient and quotient of accommodation

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

- interferential (dynamic, isoplanar, one-channel (AMF))
- TENS (symmetric, asymmetric, alternating, burst)
- Kotz' / Russian stimulation

MANUAL MODE

complete control over parameters for advanced users

TREATMENT PROGRAMS

- 204 preset treatment programs
- 150 user-defined programs
- 204 favorite programs

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
 - tonolysis – 100 mA
 - microcurrents – 1 000 μ A
- 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 %
- mains supply – 230 V, 50/60 Hz, max 75 W, 90 VA
- dimensions – 34 x 28 x 11-16 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)
- 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
- patient's stop switch
- bag for the unit and accessories
- Versa trolley
- battery