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**SANARE
MEDICAL**



PROGENY
Rehab tech

(code 7F00) Dual-channel electrotherapy

FIRING is a state of the art portable stimulator for Physiotherapy and Rehabilitation. Using the most advanced electronic technology combined with the extremely simple user interface, FIRING will satisfy the most demanding physiotherapists.

FIRING features:

- Two completely independent channels: intensity and parameter controls for each channel.
- 20 currents / waveforms used both in rehabilitation and pain therapy.
- A huge preset library of programs for most pathologies.
- Possibility of creating and saving user defined programs and sequences.
- Immediate availability of a selection of "favorites" programs user defined.
- Perineal Treatments with preset programs.
- Diagnostic analysis with Intensity / Time (I/T) curve.



- Patient database: store patient data with treatment history.
- Pain level evaluation for each recorded patient at the beginning and at the end of the treatment.
- **M.P.P.** System: extremely complex programs and protocols that will change frequency, duration pulse, sweep, rest/action frequency, intensity and relax time. All these parameters are automatically changed during the program without operator intervention.
- Connection to an ultrasound machine available (optional cable required).
- Large high quality graphical monitor for better screen visibility.

Still, with all these features, FIRING is extremely easy and intuitive to operate.



STANDARD EQUIPMENT

- 2 pcs. - Electrostimulation Cables [1] (C/IS)
- 4 pcs. - Electrodes 60x40 mm [2] (EL/1)
- 2 pcs. - Electrodes 60x60 mm [3] (EL/2)
- 2 pcs. - Electrodes 60x120 mm [4] (EL/3)
- 4 pcs. - Sponge for EL/1 [5] (A02.00316)
- 2 pcs. - Sponge for EL/2 [6] (A02.00317)
- 2 pcs. - Sponge for EL/3 [7] (A02.00318)
- 2 pcs. - Elastic straps 50 cm [8] (F6)
- 2 pcs. - Elastic straps 100 cm [9] (F7)
- 1 pc. - Black splitting cables [10] (C/DU-N)
- 1 pc. - Red splitting cables [11] (C/DU-R)
- 1 pc. - Black cable 2 mm plug [12] (C/RD-N)
- 1 pc. - Red cable 2 mm plug [13] (C/RD-R)
- 1 pc. - Power cable [14] (C/AE)



OPTIONAL EQUIPMENT

- Point Electrode [15] (M/SP-P)
- Vaginal electr. Ø20 x 10 mm [16] (EV/1)
- Vaginal electr. Ø25 x 14 mm [17] (EV/2)
- Vaginal electr. Ø25 x 10 mm [18] (EV/3)
- Vaginal electr. Ø20 x 10 mm [19] (EV/4)
- Anal electrod. Ø12 x 10 mm [20] (EL/A)
- Trolley Model "Z" [21] (A01.00128)



Equipment compliant with Directive 93/42/EEC integrated by Directive 2007/47/EC



TECHNICAL DATA

Power supply:	230 V~ 50 Hz
Power input:	45 VA
Weight:	3,8 Kg
Dimensions (LxWxH):	27 x 32,8 x 23 cm
Insulation class:	Class I - BF Type

STIMULATION MODES

-  **Tens:** It features many resident programs for most common pathologies. Frequency: 2÷200 Hz. Pulse duration: 50÷600 µs. Intensity: 0÷250 mA (Ipp).
-  **NMES:** bidirectional symmetrical pulses. Features a file with a number of programs for the treatment of different muscle conditions. Frequency: 2÷200 Hz. Duration: 50÷600 µs. Intensity: 0÷250 mA (Ipp).
-  **Bipolar interferential current:** two-pole amplitude-modulated interferential current (AMF). Square-wave frequency: 2000÷4000 Hz. Sinusoidal frequency of modulation: 5÷200 Hz. Intensity: 0÷200 mA (Ipp).
-  **Interferential vector tetrapolar:** amplitude-modulated (AMF) interferential current. Sinusoidal frequency 2000÷10.000 Hz. Sinusoidal frequency of modulation 5÷200 Hz. Intensity 0÷125 mA (Ipp).
-  **Burst:** rectangular bidirectional symmetrical pulses. Action: 0,25 s. Pause: 0,75 s. Frequency: 2÷200 Hz. Pulse duration: 50÷600 µs.
-  **Kotz:** Interrupted sinusoidal current. Sinusoidal frequency: 1000÷2500 Hz. Modulation frequency: 5÷200 Hz. Intensity: 0÷250 mA (Ipp).
-  **Trabert:** rectangular, unidirectional current. Pulse duration: 2 ms. Pause: 5 ms. Intensity: 0÷45 mA (Ip).
-  **AMF:** rectangular bidirectional symmetrical pulses. Rise: 2 s. Fall: 1 s. Pause: 2 s. Frequency: 2÷200 Hz. Pulse duration: 50÷600 µs.
-  **Faradic current:** unidirectional exponential pulses. Frequency: 1÷100 Hz. Intensity: 0÷150 mA (Ip).
-  **Iono:** **Iontophoresis:** medium-frequency unidirectional current. Frequency: 8000 Hz. Duty cycle: 95%. Intensity: 0÷50 mA (Ip).
-  **FM:** rectangular bidirectional symmetrical pulses. Sweep adjustable from 2÷10 Hz. Duration of pulses adjustable. Frequency: 2÷200 Hz. Pulse duration: 50÷600 µs.
-  **Diadynamic currents:** single-phase (MF), two-phase (DF), short-period (CP), long-period (LP). Intensity: 0÷50mA (Ip).
-  **Triangular/Exponential Pulses:** triangular unidirectional pulses. Duration: 1÷1000 ms. Pause: 1÷10 s. Intensity: 0÷50 mA (Ip).
-  **Rectangular Pulses:** rectangular unidirectional pulses. Duration: 1÷1000 ms. Pause: 1÷10 s. Intensity: 0÷50 mA (Ip).
-  **Agonist/Antagonist:** rectangular bidirectional symmetrical pulses. Stimulation agonists/antagonists muscles.
-  **Agonist/Antagonist with Faradic current:** unidirectional pulses. Frequency: 1÷100 Hz. Intensity: 0÷150 mA (Ip).
-  **Agonist/Antagonist with Kotz current:** Interrupted sinusoidal current. Sinusoidal frequency: 1000÷2500 Hz. Modulation frequency: 5÷200 Hz. Intensity: 0÷250 mA (Ipp).
-  **I/t:** **Diagnostics:** recording of the intensity/time curve. Automatic calculation of rheobase, chronaxie, accommodation coefficient and drawing of the curve. Possibility to memorize the results and records it on the database.
-  **High Voltage mod.:** double unidirectional pulse. Polarity: positive or negative. 200 V on 5 KOhm. 160 mA on 500 Ohm.
-  **Urology:** bidirectional symmetrical pulses. Frequency: 2 ÷ 200 Hz. Pulse duration: 50÷600 µs. Intensity: 250 mA (Ipp). Output characteristic: constant voltage (CV).



SANARE MEDICAL PVT LTD

Website : www.sanaremedical.com

Email : info@sanaremedical.com

Tel : +91 9810275300 , +91 98101 37486

Corp. Office: E-354 Greater kailash Part 1
New Delhi 110048

Regd. Office : DP 61 Phase 1 Udyog Vihar
Gurugram Haryana 122001