

AS SUPER 4 digital

Elektrischer Nadelstimulator / Electrical needle stimulator

Art.-Nr. 200510



Gebrauchsanweisung / Instruction Manual - Art.-Nr. 101477

schwa·medico
MEDIZINTECHNIK

The logo graphic consists of a stylized line drawing of a medical instrument, possibly a stethoscope or a similar diagnostic tool, positioned to the right of the company name.

Description of the programs

ENGLISH

Program no.	Name	Fixed parameters	Free parameters for own settings
1	Standards Continuous stimulation with one frequency and one pulse width		
1.0	Low frequency	2 Hz, 210 μ s, 30 min	1-120 Hz, 50-300 μ s, 10-90 min
1.1	High frequency	100 Hz, 120 μ s, 30 min	1-120 Hz, 50-300 μ s, 10-90 min
1.2	Gentle low frequency	2 Hz, 150 μ s, 30 min	1-120 Hz, 50-300 μ s, 10-90 min
1.3	Gentle high frequency	80 Hz, 70 μ s, 30 min	1-120 Hz, 50-300 μ s, 10-90 min
2	Han stimulation (according to Prof. Han) These programs run with 2 different phases (different frequencies and pulse widths) which alternate every few seconds.		
2.0	Han stimulation 1	Alternating 2 Hz, 210 μ s, 3 s \leftrightarrow 100 Hz, 120 μ s, 3 s, 30 min	/
2.1	Han stimulation 2	Alternating 2 Hz, 210 μ s, 4 s \leftrightarrow 100 Hz, 120 μ s, 2 s, 30 min	/
2.2	Han stimulation 2	Alternating 2 Hz, 210 μ s, 2 s \leftrightarrow 100 Hz, 120 μ s, 4 s, 30 min	/
3	Free Han stimulation: free parameter settings These programs run with 2 different phases (different frequencies and pulse widths) which alternate every few seconds.		
3.0	Free Han stimulation 1	Alternating 2 Hz, 210 μ s, 3 s \leftrightarrow 100 Hz, 120 μ s, 3 s, 30 min	Alternating F1: 1-120 Hz, 50-300 μ s for 3 s F2: 1-120 Hz, 50-300 μ s for 3 s 10-90 min
3.1	Free Han stimulation 2	Alternating 2 Hz, 210 μ s, 3 s \leftrightarrow 100 Hz, 120 μ s, 3 s, 30 min	Alternating F1: 1-120 Hz, 50-300 μ s for 3 s F2: 1-120 Hz, 50-300 μ s for 3 s 10-90 min
3.2	Free Han stimulation 3	Alternating 2 Hz, 210 μ s, 3 s \leftrightarrow 100 Hz, 120 μ s, 3 s, 30 min	Alternating F1: 1-120 Hz, 50-300 μ s for 3 s F2: 1-120 Hz, 50-300 μ s for 3 s 10-90 min

Program no.	Name	Fixed parameters	Free parameters for own settings
4	Frequency modulation (FM) - The frequency is automatically modified within a specific range: Min frequency - Max frequency - Min frequency The pulse width is constantly adapted depending on the frequency.		
4.0	Frequency modulation 1	60 Hz ↔ 120 Hz, 120 μs ↔ 100 μs in 60 s, 30 min	/
4.1	Frequency modulation 2	2 Hz ↔ 120 Hz, 210 μs ↔ 100 μs in 60 s, 30 min	/
4.2	Frequency modulation 3	2 Hz ↔ 15 Hz, 210 μs ↔ 200 μs in 60 s, 30 min	/
5	Pulse width modulation - The program uses a fixed frequency but the pulse width is automatically modified within a specific range: Min pulse width - Max pulse width - Min pulse width		
5.0	Pulse width modulation 1	2 Hz, 100 μs ↔ 210 μs in 120 s, 30 min	/
5.1	Pulse width modulation 2	15 Hz, 100 μs ↔ 210 μs in 120 s, 30 min	/
5.2	Pulse width modulation 3	80 Hz, 60 μs ↔ 150 μs in 120 s, 30 min	/
6	Burst - Burst programs use a high frequency stimulation in a low frequency rhythm: impulse packages of 100 Hz are applied for a fraction of time with pauses between the packages.		
6.0	Burst 1	100 Hz (150 μs) impulses packages for 0.25 s, then 0.25 s pause (2 Hz), 30 min	/
6.1	Burst 2	100 Hz (150 μs) impulse packages for 0.5 s, then 0.5 s pause (1 Hz), 30 min	/
6.2	Burst 3	100 Hz (60 μs) impulse packages for 0.25 s, then 0.25 s pause (2 Hz), 30 min	/
7	Programs according to Dr. Paul Nogier		
7.0	Nogier A	2.28 Hz, 210 μs, 30 min	/
7.1	Nogier B	4.56 Hz, 210 μs, 30 min	/
7.2	Nogier C	9.12 Hz, 210 μs, 30 min	/
7.3	Nogier D	18.52 Hz, 210 μs, 30 min	/

Program no.	Name	Fixed parameters	Free parameters for own settings
7.4	Nogier E	36.50 Hz, 210 μ s, 30 min	/
7.5	Nogier F	73.00 Hz, 210 μ s, 30 min	/
7.6	Nogier G	146.00 Hz, 210 μ s, 30 min	/
7.7	Nogier U	1.14 Hz, 210 μ s, 30 min	/
8	Random Generator - Random parameters are automatically chosen by the device for all 4 channels in the range of 1-100 Hz and 100-180 μs.		
8.0	Random	1-100 Hz, 100/180 μ s, 30 min	/
9	Programs according to Peter De Vilder and Lieven Wauters TSEA group: Traditional and Scientific approach to Electro-Acupuncture		
9.0	TSEA standard high frequency (for non opioid pain treatment)	80 Hz, 180 μ s, 20 min	/
9.1	TSEA standard low frequency (for opioid pain treatment)	2 Hz, 180 μ s, 20 min	/
9.2	Sensitive high frequency (pain treatment in sensitive regions, eg. face, scalp)	80 Hz, 60 μ s, 20 min	/
9.3	Burst sensitive (pain treatment in sensitive regions, eg. face, scalp)	100 Hz, (60 μ s) impulse packages for 0.25 s, then 0.25 s pause (2 Hz), 20 min	/
9.4	Frequency modulation (alternative to 9.0 to avoid accommodation)	20 \leftrightarrow 100 Hz in 8 s, 180 μ s, 20 min	/
9.5	Hypertonic (for spastic muscles, contractions of the muscles)	100 Hz, 300 μ s, 20 min	/
9.6	Edemas	4 Hz, 180 μ s, 20 min	/
9.7	Energetic tonification after TSEA	3 sequences: Seq. 1: 2 Hz 180 μ s, 7 min Seq. 2: 4 Hz 180 μ s, 7 min Seq. 3: 6 Hz 180 μ s, 7 min 21 min in total	/
9.8	Energetic sedation after TSEA	3 sequences: Seq. 1: 80 Hz 180 μ s, 5 min Seq. 2: 100 Hz 180 μ s, 5 min Seq. 3: 120 Hz 180 μ s, 5 min 15 min in total	/