

ADVANCED 4 CHANNEL TENS THERAPY



DYNO:PULSE LCD

INSTRUCTION MANUAL

Sun Medisys Inc.

An ISO 9001:2015 Certified Company

An ISO 13985:2012 Certified Products

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SUN MEDISYS INC.

INTRODUCTION

Congratulations for purchasing our next generation ADVANCED TENS Therapy Unit, designed to suit almost every clinical application to provides effective management for most of the musculo-skeletal painful/inflammatory conditions including degenerative pathologies. The unit comprises of digital pulses generator with versatile parameter settings suitable for almost every clinical applications, its integrated digital cut-off timer adds to precision and convenience of treatments. This unit is suitable for both stationary clinical and mobile purposes. The unit comes with all necessary accessories for therapeutic application. Its user-friendly features are so set that they offer best of the treatment parameters in its class. The unit comes with our traditional assurance of quality and safety standards.

SALIENT FEATURES

- Four independent output channels with indicator
- 0-80 mA pulse Amplitude on each channel
- AC Operation
- Preset programs for ease of use
- 60 Minutes variable treatment timer
- 16 x 2 LCD display
- Audio buzzer at end of treatment for safety
- Light weight for Portability
- In use indicator

PROGRAM LIST

- | | |
|-----------------------|------------------------|
| 1). Burst - 100Hz | 2). Burst - 200Hz |
| 3). Constant - 2 Hz | 4). Constant - 10 Hz |
| 5). Constant - 20 Hz | 6). Constant - 40 Hz |
| 7). Constant - 80 Hz | 8). Constant - 100 Hz |
| 9). Constant - 120 Hz | 10). Constant - 150 Hz |
| 11). Surge - 100 Hz | 12). Surge - 200 Hz |

INDICATIONS

Indications for low frequency stimulator include the following:

- | | | | |
|------------------------|-----------------------|----------------------|-----------------|
| • Arthritic Pain | • Sciatica | • Muscle Stimulation | • Neurotic Pain |
| • Increased Blood Flow | • Degenerative Joints | • Reduction Of Edema | • Atrophy |
| • Healing and Repair | • Denervation | • Placebo | • Edema |

CONTRADICTIONS

1. Patients who do not comprehend the physiotherapist's instructions or are unable to cooperate should not be treated.
2. Patients who are taking anticoagulation therapy or have a history of pulmonary embolism or deep vein thrombosis should not be treated with the vacuum electrode applications.
3. Similarly, Patients whose skin may be easily damaged or bruised or is-chemic/anesthetic.
4. Applications over :
 - The trunk or pelvis during pregnancy
 - Active or suspected malignancy
 - The eyes
 - The anterior aspect of the neck
 - The carotid sinuses (stimulation in this area may cause a drop in blood pressure)
 - Patients with pacemakers
 - Dermatological conditions e.g. dermatitis, broken skin
 - Danger of hemorrhage or current tissue bleeding (e.g. recent soft tissue injury)
 - Avoid active epiphyseal regions in children

METHOD OF APPLICATION

1. Position the unit in a safe and convenient manner.
2. Fix the suitable electrode on to the treatment area.
3. Switch the power 'ON'.
4. Select the output pulse mode.
5. Set the frequency through the main Knob.
6. Select Treatment time by pressing +/- keys.
7. Press start to commence the treatment.
8. Gradually increase the intensity to the prescribed / desired level.
9. After the completion of set treatment time, the unit will automatically bring the intensity to ZERO along with a audio buzzer.
10. Put the intensity knob to the ZERO.
11. Switch the power 'OFF'.
12. Remove the electrodes and save them safety.

In case the treatment needs to be terminated before the prescribed time press 'stop' button.



DESCRIPTION OF SWITCHES

The unit comes with user friendly features that ensure precise parameters setting and maximum therapeutic benefits. The control panel of the unit is equipped with:

1. Mains Socket - On back panel of the Unit. It connects the unit to mains supply.
2. Mains Switch - On back panel of the Unit. Makes and breaks mains connection to the unit. This switch also functions as circuit breaker in case of overload.
3. LCD Display - Sets the parameters like Treatment time and The desired program using the up/down keys. Enter is pressed to confirm the parameter and reset is used to return to the main screen.
4. Frequency & Mode Selection - Select the output mode by pressing up & Down keys.
5. Intensity Control - It raises the output from 0 to maximum intensity i.e. 0-80 mAmp.
6. Timer Keys - Set treatment time(Default 15.00 min.) to set Automatic shut-off power after the set time between 0-60 minutes.
7. Audio Buzzer - Alarms completion of treatment time.

STANDARD ACCESSORIES

This TENS unit will be supplied with the following accessories:

1. Rubber electrodes (Round) 08 Nos.
2. Electrode's Lead 04 Nos.
3. Velcro Fixation straps 02 set
4. Mains Lead 01 No.
5. User's Manual 01 No.
6. Extra fuse 01 No.
(available with in the AC Socket)

PRECAUTIONS

- The Unit must grounded during application.
- Do not use this unit near to other high frequency/electromagnetic device.
- If there is abnormal skin sensation, electrodes should be positioned in a site other than that area to ensure effective stimulation.
- For patients who have febrile conditions, the outcome of the first treatment should be monitored.
- Patients who have epilepsy, advanced cardiovascular conditions or cardiac arrhythmias should be treated at the discretion physiotherapist in consultation with the appropriate medical practitioner.
- Only the supplied / recommended accessory must be used with unit.
- Do not apply this unit in conditions of pregnancy.
- Keep the electrodes separate during the treatment

WARNING

- Before using the equipments, the user should read carefully the instructions contained in this manual.
- Before treating a patient, the user should familiarize himself with the operating modes and have clear knowledge of indications & contraindications for the use of apparatus.
- Please insure this manual is readily available at all times to the personnel authorized to use the apparatus.
- For safety purpose, the power cord has been fitted with an earthed plug.
- ONLY USE AN EARTHED POWER SUPPLY SOCKET.
- The unit must be connected to approved power supply system.
- Do not use the apparatus close to SWD or MWD devices, may cause instability in output and functioning in program.
- Never leave the patient unattended during the treatment.
- The apparatus may not be used in so called "wet rooms" (hydro therapy rooms).
- SunMedisys will not be responsible for Therapy Effects resulting from an improper use of the apparatus.

TECHNICAL SPECIFICATIONS

Power Source	90 to 240 v AC 50/60Hz, SMPS supply
No. of Channel	Four independent output
Waveform	Bi-phasic Rectangular Balanced Wave
No. of Programs	12
Pulse Amplitude	0 - 80 mA/Channel
Pulse Width	150 us
Timer	0 - 60 min
Dimention	24 x 23.5 x 7 (L X B X H)(cm.)
Weight	2.0 Kg./Unit

OUR OTHER PRODUCTS

