

# NURSAL

## TENS AND MUSCLE STIMULATOR AS1080



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**NOTE**

1. Avoid touching the pads when the device is turned on.
2. Do not place pads near the heart, head or carotid.
3. Not suitable for use by pregnant women, people with implanted devices or heart disease.
4. Apply a few drops of water when the pads have lost stickiness.

## A Big Thank You

Dear Customer,

We're thrilled to welcome you to the NURSAL family,  
and we'd like to thank you for purchasing our product.  
We're proud to serve you as our customer and we hope  
that you get the most out of your purchase.

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Thank you for purchasing Tens (Transcutaneous Electrical Nerve Stimulation) Stimulator. To enable you properly operate this product, please thoroughly read this product introduction first and keep the manual well after reading for future reference.

## 1 INTRODUCTION

### Foreword

The device is a two output channels TENS machine and highly effective in relieving pain, different program suits to different parts of the body and pain. TENS stands for Transcutaneous Electrical Nerve Stimulation is recognized as a safe and highly effective method of relieving pain. TENS is now regularly recommended by doctors, physiotherapists and pharmacists throughout the world. Before using, please read all the instructions in this user manual carefully and keep it safe for future reference. Due to its portable appearance, the use of the device will be no longer bound by time or space. It is really a good partner for health care in daily life.

### How does TENS work

Scientific theory suggests that electrical stimulation therapy may work in several ways.

- The gentle electrical pulses move through the skin to nearby nerves to block or shut out the pain message from ever reaching the brain from the source of the pain.










- The gentle electrical pulses increase the production of the body's natural pain killer.
- Furthermore, it is thought that the electrical stimulation improves blood circulation as well. Muscles contract and relax with the flow of the electrical stimulation. With repeated contracting and relaxing, the blood flows in and out and the blood circulation is improved.

## Functions (Intended for use)

Intended uses include the following:

- Temporary relief of pain associated with sore
- Aching muscles in the shoulder, waist, back, neck, upper extremities(arm)
- Lower extremities(leg) due to strain from exercise
- Lower extremities(leg) due to normal household work activities

## SYMBOLS

SYMBOL	MEANING
	Attention, consult accompanying documents
	BF Isolated Applied Part
	Class II equipment
	Disposal in accordance with Directive 2002/96/EC
	MANUFACTURER
	Date when the medical device was manufactured.
	AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY
	Pls read the user manual before use
	CE Mark, meets compliance of applicable directives and regulation in EU
<b>IP22</b>	<p>IIIP Classification: The first number 2: Protected against access to hazardous parts with a finger, and the jointed test finger of 12 mm <math>\Phi</math>, 80 mm length, shall have adequate clearance from hazardous parts, and protected against solid foreign objects of 12.5 mm <math>\Phi</math> and greater.</p> <p>The second number: Protected against vertically falling water drops when enclosure is tilted up to 15°. Vertically falling drops shall have no harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical.</p>

## SAFETY PRECAUTIONS

1. Never apply the pads to your skin with the power on, which will result in sudden shock. During massaging, if you want to move the pads to another body part, please shut down the device first, and then move the pads to the place that you want to massage.
2. Never use this product in concurrence with the following devices: pacemakers or any other embedded electronic medical devices, heart-lung machine and any other life keeping electronic medical devices, electrocardiograph and any other medical screening and monitoring devices. Simultaneous use of AsTec TENS and any of the above devices will cause malfunction and can be very dangerous to the users.
3. Never use this product in concurrence with high frequent surgical equipments, it may result in burns at the site of the stimulator electrodes and possible damage to stimulator.
4. Never use this product near microwave oven, or other high frequent equipments.
5. Please do not operate the products in close proximity (e.g. 1m) to shortwave therapy equipment, it may produce instability in stimulator output.
6. Please do not operate electrodes near the thorax which may increase the risk of cardiac fibrillation.
7. Please consult a physician regarding the use of the product under the following circumstances: patients with heart disease, baryodynia disease, acute conditions, malignant tumors, tuberculosis, any contagious disease, high fever, abnormal blood pressure, skin disease, lack of sensation on the skin, wounds on skin;



pregnant women, women in menstrual cycle, or puerpera; the one who has wet body after shower or sweat; and patients who are receiving treatment. Use of the device under those circumstances may cause discomfort, accidents and may worsen your condition.

8. Please do not use the products near the heart, it may cause increase the risk of cardiac fibrillation.

9. Please do not use the products in bathroom or a moisture environment. Do not apply it while bathing.

10. Please do not use the products in the condition of air mixed with flammable anaesthetic gas or oxygen or nitrous oxide mixed with flammable anaesthetic gas.

11. Do not disassemble, repair or modify without authorization, you will void any warranty on the product.

12. This Product cannot be repaired until the repairing technical personnel is designated by the manufacturer. The designated repairing technical personnel can require the manufacturer to supply the technical data (e.g. circuit diagram, PCB drawing, component list etc.).

13. Method for disposing the expired equipment and accessories: Do not mix the expired equipment and accessories with the household rubbish, the rubbish should be disposed in accordance with local regulations (Example: put the rubbish into electronics recycling station)

14. Two pads should be used together, and peel off the protective film on the pads before using. Do not connect two pads in the process of using to avoid short cut.

15. Please do not apply pads on same position for over 30 minutes every time.

16. Children and persons with communication disabilities are forbidden to use the device.
17. Do not use other equipments when use the device.
18. Do the disposal of waste device regarding your local government instruction
19. Keep the device out of pets, pests or children reach. They will damage the device to cause not correct output performance with uncomfortable stimulation.
20. The device may be degraded by lint, dust, light (including sunlight) to cause not correct output performance with uncomfortable stimulation.
21. When you exchange new pads, you shall use the same type of the pads.

1. Pads can be used for 10-15 times at home, it depends on different situations. In hospital, they can only be used for not more than 10 times. When viscous force is not enough, you can dad off pads with water by hands (do not wash them with water directly, oil and soaplesoap). When viscous force cannot regain, please exchange them.

2. All accessories, except for host machine, including USB cables, pads, output cables, charges can only be changed by special person. Please exchange them by retails.

3.Warning:

The use of ACCESSORIES, transducers and cables other than those specified, with the exception of transducers and cables sold by the MANUFACTURER of the COMPRESSOR NEBULIZER as replacement parts for internal components, may result in increased EMISSIONS or decreased IMMUNITY of the ME EQUIPMENT or ME SYSTEM.

## CAUTIONS

The intensity of the stimulation is felt differently by each individual and also will vary with physical conditions. Therefore, adjust the strength level to the position you feel most comfortable. Do not assume that by increasing the intensity of the stimulation there will be a stronger effect. However, it is possible that excessive stimulation to the skin will result in irritation or red eruptions.

This product needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided, and this unit can be affected by portable and mobile RF communications equipment.

1. Do not apply the massage pads near the heart, on the head, above the neck, in the pubic region, over Scarred areas, on the throat or over the mouth.
2. Avoid touching the pads when the unit is on.
3. Pregnant women must avoid using this massager.
4. Do not use this Stimulator if you a pacemaker or other life support equipment such as an artificial lung or respirator.
5. should not be used while driving, operating machinery, or during any activity in which involuntary muscle contractions may put the user at undue risk or injury
6. Caution should be used for patients with suspected or diagnosed epilepsy
7. Caution should be used in presence of the following.
  - When there is a tendency to haemorrhage following acute trauma or fracture;
  - Following recent surgical procedures when muscle contraction may disrupt the healing process
  - Over the menstruating or pregnant uterus
  - Over areas of the skin which lack normal sensation
8. Do not use if you have following medical conditions:
  - Patients with cardiac problems
  - Patients with carotid sinus. Tens may cause bradycardia
  - Directly over any wound
  - Over the uterus of a pregnant woman
  - Unless for labour pain
  - Over the eye
  - Patients with pacemakers
  - Over poorly enervated areas

- Over temple
- On or near the trigeminal nerve if you have a history of herpes zoster induced trigeminal neuralgia (Postherpetic neuralgia)  
Should ask the doctor about this device before using it if the patient:
- Suffer from acute diseases
- Have a tumour
- Have an infectious disease
- Suffer from fever
- Have blood pressure troubles
- Have skin diseases
- Recently had an accident
- Suffer from nausea or dizziness
- Experience the onset of a disease
- Notice any irregularities
- Have pains of unknown reasons
- Suffer from diabetes
- Suffer from convulsive disorders
- Have your period
- Have metal in patient's body

9. Keep out of the reach of children.

10. It is contraindicated for use on any muscle that is injured or diseased

11. Powered muscle stimulators should be used only with the leads and electrodes recommended for use by the manufacturer.

12. Electrode placement and stimulation setting should be based on the guidance of the prescribing practitioner

13. Some patients may experience skin irritation or hypersensitivity due to the electrical stimulation or the conductive medium.

The irritation can usually be reduced by using an alternative conductive medium or alternative electrode placement.

14. Please consult a professional to replace the battery

15. No modification of this stimulator is allowed.

16. That stimulation should not be applied directly on the eyes, covering the mouth, (especially the carotid sinus), or from electrodes placed on the chest and the upper back.

17. Warning:

It can be unsafe to

- Use of accessories, detachable parts, and materials not described in the instructions for use
- Modification of the equipment
- Use of the me equipment outside its carrying case when some part of the protection required by this standard is provided by that carrying case

18. Do not use this product with an electrocardiograph meter (ECG) or any other medical apparatus.

19. Do not use this product with any topically applied creams or ointments.

20. The device should not be used while the user is connected to high-frequency surgical equipment, it may cause burn injuries on the skin under the gel electrodes, as well as problems with the device.

21. Do not use in the vicinity of shortwave or microwave therapy equipment, since this may affect the output of the device.

22. Do not use on a wet body

23. Do not use in the bathroom or in any other area of high humidity as this may cause an uncomfortable intense stimulation.

24. Do not use while driving or operating any other mechanical equipment

25. If the electrode was not intact, do not use the device. Degraded sensor and electrodes, or loosened electrodes may cause output performance with potential risk.

Additional precaution:

- Strangulation due to cables and hoses, particularly due to excessive length.
- Inhalation or swallowing of small parts: Keep the device out of the reach of children
- Potential allergic reactions to accessible materials used in the me equipment, Electrode gel may cause a skin irritation, if this happens, please seek medical advice.
- Contact injuries: Do not use on around area of the body with skin disease, damage or inflammation.

## ILLUSTRATIONS OF THE DEVICE AND FEATURE

1. Device x 1pc
2. 2"\*2" tens pads x 8pcs
3. 2"\*4" tens pads x 4pcs
4. USB cable x 1pcs Neck Muscle
5. Instruction manual x 1pc
6. Collection board for pad and wire x 1pc
7. Pouch x 1pc
8. Electric Wires x 3pcs (2x1/2 wire & 1x1/4 wire)

When use 4 line cable, make sure to use at least 1pc positive + 1pc negative at the same time.

Note: Different color indicates the different positive.

## FEATURES

- A/B dual independent channels, operate their modes and intensity level separately, enjoy 2 different massage at the same time.
- Multi-functional tens massager with 24 preprogrammed massage modes for pain and muscle relief.
- 20 level intensity
- 20 minutes default timer, can adjustable from 10-60 minutes
- Rechargeable lithium battery.
- Battery indicator to know when need to recharge battery.



## Charging the Battery

1. Turn off the controller.
2. Connect the controller and the charger with USB extension cord. Plug charger into any power outlet. The charging process will last approximately 1 hour.
- 3.



**NOTE:** Only charge the controller when battery is completely drained the first 2 times. Unplug charger from power outlet when charging is complete. When massage strength decreases, it indicates that the device needs charging. Recharge it and then continue to use the device. Do not use the controller when charging.

## PRODUCT TECHNICAL PARAMETERS

NAME OF PRODUCT	TENS AND MUSCLE SIMULATOR
Model No.	AS1080
Product material	Shell material of controller with ABS, Pads with silica gel
Battery	3.7V, 180mAh Restriction: 4.2V
Consumed current	40mA
Modes	24 kinds of modes
Strength level setting	20 sections
Timer	20 minutes default timer, can adjustable from 10-60 minutes
Weight of main frame	0.35 Kg (including controller, pads, charger, USB extension cord and output cord)
Normal working ambient temperature	5~40 °C
Normal working ambient humidity and Atmosphere pressure	≤80%RH; Atmosphere Pressure: 700 ~1060hPa

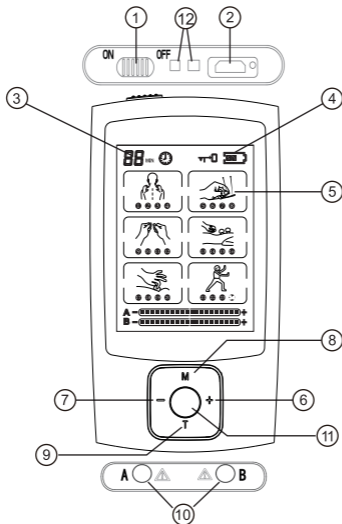
## PRODUCT TECHNICAL PARAMETERS

NAME OF PRODUCT	TENS AND MUSCLE SIMULATOR
Store and transport ambient temperature	-20~55 C
Store and transport ambient humidity and Atmosphere pressure	≤93%RH; Atmosphere Pressure: 700 ~1060hPa
Safety classifications	Internal powered equipment, Type BF applied part, not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide, continuous operation
Charger	Input:100-240V 50/60Hz 0.25A Output: DC5V 550mA Complied standard: IEC 60950-1 Class II, not applied part, not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide, continuous operation
Expected service life	The expected service life of the equipment is 5 years

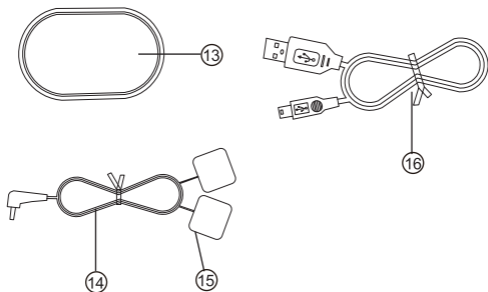
## TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
One pad feels stronger than the other.	This is normal. Different areas of your body will react differently.	Nothing needs to be done. Make sure the pads are moist and are making good contact.
During the massage, the skin feels a painful burning sensation or the stimulation becomes weakened.	Adhesive gel pads are not adhering firmly to the skin. Or the gel pads are too dry.	Apply a few drops of water to adhesive surface of each pad and make sure the pads are pressed firmly to the skin during application.
Unit is on, but no sensation is felt in the pads.	Both pads are not firmly on the skin. Or there is a loose connection. Or the intensity level needs to be increased.	Make sure both pads are firmly pressed to the skin. Make sure all connections are secure from the unit to the wires and the wires to the pads. Increase the intensity level.
Adhesive gel pads do not stick to skin even after cleaning and moistening the gel pad.	Adhesive gel pads need to be replaced.	Replace the set of pads. Pads can be purchased from local distributor.
Unit does not turn on or the screen is dim.	Battery is low.	Recharge the battery.
Does not provide adequate pain relief.	Not using it long enough. Not lying down then massaging neck.	Use your Stimulator 20-30 minutes at a time, 3-6 times per day. Lie on your back for neck support when you need relief for headaches or neck pain.

## ILLUSTRATIONS OF THE DEVICE AND ACCESSORIES:



- |                            |                                  |
|----------------------------|----------------------------------|
| 1. On/ off switch          | 7. Intensity adjustment(-)       |
| 2. Charging port           | 8. Modes                         |
| 3. Timer                   | 9. Time adjustment               |
| 4. Battery indicator       | 10.A/B channel output connector  |
| 5. LCD screen              | 11. Channel switch & screen lock |
| 6. Intensity adjustment(+) | 12. Portable Lanyard Port        |



13. Pads-sticking board

14. Pad wires

15. Electrode pads

16. USB cable

## MODES INSTRUCTION

### TENS:

To be used for temporary relief of pain associated with sore and aching muscles in the shoulder, waist, back, upper extremities (arm), and lower extremities (leg) due to strain from exercise or normal household work activities.

### EMS:

It is intended to be used to stimulate healthy muscles in order to improve and facilitate muscle performance.

## Main Mode 1. KNEADING

### ① Lateral palm kneading (Continuous Stable Mode) (TENS):

This mode is effective for joint pain, sciatica, muscle spasms, and pain in the back, neck, and shoulders.

### ② Flat palm kneading (Continuous Stable Mode) (TENS):

Enhance function, aid in the healing process, inhibit motor-neuron excitability, decrease muscle reflex activity, promote relaxation, recreational and well-being.

### ③ Strength Alternate Crosscut Kneading (EMS):

It is a type of alternative medicine consisting of finger and palm pressure, stretches, and other massages techniques.

### ④ Strength Alternate Vertical kneading (TENS):

It is the manipulation of superficial and deeper layers of muscle and connective tissue using various hands-on techniques, to enhance physical function, aid in the healing process, release tension, and promote well-being.



## Main Mode 2. Acupuncture

### ⑤ Acupuncture (TENS):

This mode is used for the points on the Chinese meridian pressure point chart to assist headaches, a variety of ailments

as well as muscle and joint pain. Particularly good for fast relief of acute pain.

⑥ Moxibustion + kneading (EMS):

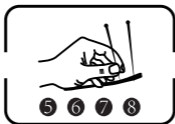
It helps chronic diseases such as insomnia, constipation, headaches, and the tension associated with stress.

⑦ Strength Alternate Acupuncture (TENS):

This mode is used for the points on the Chinese meridian pressure point chart to assist headaches, a variety of ailments as well as muscle and joint pain. Particularly good for fast relief of acute pain.

⑧ Acupuncture + kneading (EMS):

Helps to reduce muscle spasms, increase the range of motion, injury recovery and the after surgery recovery.



MAIN MODE 3. Beat

⑨ Beating (TENS):

The appliance puts out quick and strong pulses in a regular rhythm; good for all major muscle groups.

⑩ Strength Alternate Beating (EMS):

The appliance puts out hard thumping sensation that massage your muscles, which can give you an invigorated and revitalized feeling.



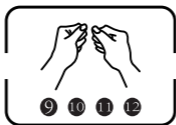
⑪ Kneading + Beating (TENS):

Provides the user with a kneading and beating sensation.

Releases unhealthy elements from injured areas and stimulates blood flow and healing.

⑫ Continuous Beating (TENS):

Helps to reduce muscle spasms, increase the range of motion, injury recovery and the after surgery recovery.



#### MAIN MODE 4. Cupping

⑬ Cupping (TENS):

It's a form of therapy in traditional Chinese medicine. Cups are placed on the particular section of the body to create suction often using heat. The method draws out toxins, mobilizes blood flow, alleviates muscle pain and even improves the quality of sleep.

⑭ Kneading + Cupping (TENS):

Provides the user with a kneading and cupping sensation.

Releases unhealthy elements from injured areas and stimulates blood flow and healing.

⑮ Continuous Cupping (TENS):

For relieving back and neck pain, stiff muscles, anxiety, fatigue, migraines, rheumatism, and even cellulite etc.

⑩ Strength Alternate Cupping (TENS):

For muscle strains, herniated discs, stenosis, spondylosis, spondylolisthesis, and general arthritis pain.



MAIN MODE 5. Scraping

⑪ Scrape Therapy (TENS):

Stimulates circulation to end stasis, warms the channels to relieve pain and eliminate toxins from the body. According to traditional Chinese medical theory, scraping the skin can stimulate one's immune system and then help to remove the disorder.

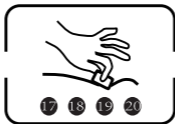
⑫ Kneading + scraping (TENS):

Provides the user with scratching and kneading sensation. Releases unhealthy elements from injured areas and stimulates blood flow and healing.

⑬ Beating + scraping (EMS):

Provides the user with a beating and scraping sensation.

⑭ Strength Alternate Scraping (EMS): It's effective in acute and chronic internal organ disorders. Helps to relieve pain, stiffness, fever, chill, cough, wheeze, nausea and vomiting, etc.



## MAIN MODE 6. Tai Chi Massage

### ②① Tai Chi Massage (TENS):

This form of therapy involves hands-on techniques to increase circulation, relieve tension, reduce stress, relieve anxiety, improve the quality of sleep, and promote relaxation throughout the entire body, as well as many other benefits.

### ②② Meridian and Collateral Massage (TENS):

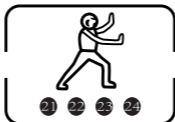
It has a soothing and relaxing effect, improves blood and lymphatic flow, and corrects minor misalignments of muscles, tendons and ligaments.

### ②③ Naprapathy (EMS):

Relief of pain & muscle tension. Relieves the tension, brings blood flow back to the joint and improves your mobility.

### ②④ Strength Alternate Tai Chi Massage (TENS):

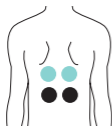
Enhancing body fluid circulation, relieving muscle tension and pain, promoting metabolism in the body and cleansing the body.



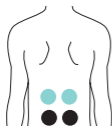
## RECOMMEND USE POSITIONS



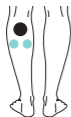
Stiff Shoulder



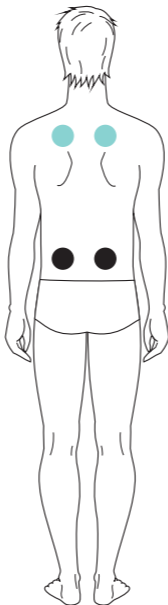
Erector Spinalis



Low Back Muscle



Calf Muscle



General System Nerves,  
Muscle, Tiredness &  
Bad Blood Circulation



Neck Muscle



Hip Neuralgia



Sciatica



Slipped Disk



Shoulder Pain



Chronic Hip Pain



Knee Pain



Lower Leg Pain



Foot Pain

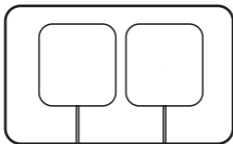


Carpal Tunnel Syndrome

## OPERATING INSTRUCTIONS

### Step 1: Prepare pads.

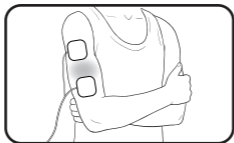
Connect 2 pads to the cord by snapping them on. Using the 1/4 wire, make sure that you use 1pc positive + 1pc negative wire (different colors indicate is it the positive one or the negative one). Remove the protective film.



(TENS pads)

### Step 2: Placing pads.

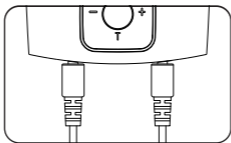
Place pads where the massager impact is desired, over or near the injured area of the body. Make sure your skin is free from any dirt, oil or lotion.



(Pads attached to the forearm)

### Step 3: Connect wires.

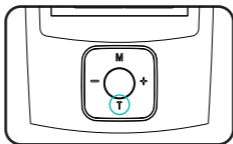
Connect 2 or 4 pads to both wires (A/B channel), place all connected pads on your skin at the same time for additional relief.



(Wiring diagram)

### Step 4: Set up a time.

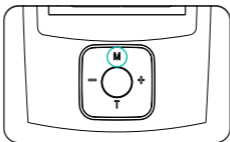
Turn ON the device by pressing the ON/OFF button. Press "T" button to adjust the time. Set up a time from 10 to 60 minutes.



(The appliance equipped with the "T" button to adjust the time)

### Step 5: Choose a mode.

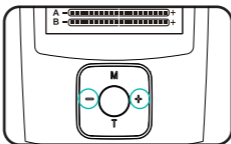
There are 6 icons (6 main modes) on the screen, each icon has 4 built-in modes. Press the "M" button for 2 seconds to switch between 6 main modes. Press "M" button quickly to choose built-in modes for each of the main modes. This Tens Unit has mode memory function.



(The appliance equipped with the "M" button to choose built-in modes)

### Step 6: Adjust the intensity.

Once you select a mode, press the "+/-" button to gradually increase or decrease the intensity. The default strength is the lowest strength set by each selected mode to avoid misoperation.

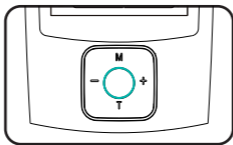


(The appliance equipped with the "+/-" button to gradually adjust the intensity)



### Step 7: A/B channel switching.

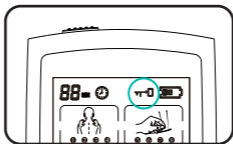
Short press the round center button to switch from A channel to B channel, repeat step 5 and step 6 to operate mode and intensity of B channel.



(The appliance equipped with the round center button for A/B channel switching)

### Step 8: Lock the screen.

After you set both A and B channel well, long-press the round centre button for 3 seconds. The screen will show a lock symbol, all buttons are blocked now, TENS unit starts massaging. This function is designed to avoid mistouch.



### Step 9: Shut OFF the appliance

The TENS unit will shut OFF automatically after the countdown ends.

## TIPS FOR TENS UNIT PAD PLACEMENT

1. Take note of exactly where your pain is located. Outline the most concise and tender area of the pain.
2. Always use two pads (one channel) or four pads (two channels) at the same time depending upon the type of TENS unit that you have as it will not work with just one pad.
3. You can alter the flow of the electrical sensation if you change the distance between the electrode pads and/or the direction of the pads.
4. The pads can be placed in one of three directions 1. vertical 2. horizontal 3. angulated.
5. The pads should never touch and should be at least, 1 inch apart. As the distance between the two pads increases the effectiveness decreases.
6. It is advisable not to place the pads directly over a joint such as the knee, elbow or ankle as its movement can alter the adherence of the pad.
7. Never place the electrodes on or near your face.
8. When applying for the first time, be sure to program your TENS unit to a low-intensity level and increase as needed.

## MAINTENANCE AND STORAGE

1. Unplug the output cord from the output jack of the controller after using.
2. Cover both pads with the protective film before storage.
3. Never fold the massage pads.
4. To keep the controller clean, use a soft and dry cloth for dust or a soft damp cloth for any dirt and smudges. Do not use any cleaning solutions to clean the controller and its pads.
5. Never apply the pads on any surface other than your skin. If the pads become soiled or dirty, the adhesive power may decrease. In this case, moisten the surface of the pads with water and wipe away the dirty portion. This will allow a temporary restoration of the adhesive power. However, too much water will result in loss of the adhesive power.
6. Do not use or store the devices where there are magnetic fields or electric wave (near TV set or speakers).
7. Do not place the devices in areas of high temperature, high humidity, or under direct sunlight.
8. Keep the device out of reach of children.
9. All worn accessories should be dealt according to the regulations.
10. Do not immerse the device in water or any liquid. Do not drop the device or throw it from a height.
11. After using the device, please remove the electrode and replace the protective film. Always use the protective film when the electrode is not in use.

## 12. Cleaning

- Machine washing and soaking is PROHIBITED.
- Do not wash the belt in fabric softener as this can damage the belt.
- Do not dry clean.
- Do not use bleach.
- Clean accessories with a slightly wet sponge with detergent and wipe with a cloth.
- Clean the unit with a cloth soaked in with disinfectant (Mercryl type) diluted in water at 1/10th.
- Clean the electrodes with a mix of water/hypoallergenic detergent, then rinse thoroughly.
- Keep the device and electrode clean

**NOTE:** To purchase official replacement electrode pads, you can find suitable pads on Amazon by search " NURSAL TENS PADS " or contact us at [support@nursalshop.com](mailto:support@nursalshop.com). Please identify NURSAL logo.

## ELECTROMAGNETIC COMPATIBILITY

It has been tested and found to comply with the electromagnetic compatibility (EMC) limits for medical devices to IEC 60601-1-2: 2014. These limits are designed to provide reasonable protection against harmful interference in a typical medical installation.

### CAUTION:

Do not use this device simultaneously with devices having high EMI levels.

Guidance and manufacture's declaration – electromagnetic emission		
It is intended for use in the electromagnetic environment specified below. The customer of the user of device should assure that it is used in such an environment.		
EMISSION TEST	COMPLIANCE	ELECTROMAGNETIC ENVIRONMENT – GUIDANCE
RF Emissions CISPR 11	Group 1	It use RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emission CISPR 11	Class B	It is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic Emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

**Guidance and manufacture's declaration – electromagnetic immunity**

The device is intended for use in the electromagnetic environment specified below. The customer or the user of device should assure that it is used in such an environment.

IMMUNITY TEST	IEC 60601 TEST LEVEL	COMPLIANCE LEVEL	COMPLIANCE LEVEL
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±15 kV air	±8kV contact ±15 kV air	Floors should be wood, concrete or ceramic tile. If floor is covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient burst IEC 61000-4-4	±2 kV for power supply lines	±2kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s)	±1 kV differential mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 sec	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery.
Power frequency (50Hz/60Hz) magnetic field IEC 61000-4-8	30A/m	30A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE: UT is the a.c. mains voltage prior to application of the test level.

## DISPOSAL OF MATERIALS

A symbol of Waste Electrical and Electronic Equipment means you should find out about follow local regulations about disposing this kind of product.

- Do not dispose this product as you would other household waste.

Dispose this device in accordance with the corresponding local regulations. - Electrical and electronic devices contain hazardous substances that can have harmful effects on the environment and/or human health and should be recycled properly.

Guarantee: 1 years



# NURSAL

## CUSTOMER SERVICE

✉ [support@nursalshop.com](mailto:support@nursalshop.com)

☎ 1-855-666-8877



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