

# AccuMed

## Mini Electronic Pulse Stimulator



**AP111**  
**Operating Manual**  
**[www.AccuMed.com](http://www.AccuMed.com)**

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## Introduction

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AP111 Mini Electronic Pulse Stimulator is a portable, battery-powered Transcutaneous Electrical Nerve Stimulator (TENS). As a pain relief device, AP111 delivers electric pulses to tired and sore muscles. These pulses are generated by the device and delivered through the connecting wires and electrodes to the target body areas. AP111 helps relieve pain in various parts of the body, such as the lower back, shoulders, hands, and feet.

AP111 has 8 operation modes. Its display screen can show the battery power, selected mode, current intensity, and remaining time. The device is equipped with the following accessories: four electrode pads, two electrode cables, one battery charger, one USB cable, and one wire roller coupled with the pad holder.

## Safety warnings

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**DANGER**



Do not use this device if you have an implanted defibrillator or implanted metallic devices. Such use could cause electrical shock, burns, electrical interference or death.

**WARNING**



If you have one of the following conditions, please consult with your physician before purchasing or using this device.

Acute disease, malignant tumor, infective disease, pregnant, heart disease, high fever, abnormal blood pressure, lack of skin sensation or an abnormal skin condition, any condition requiring the active supervision of a physician.

**NOTICE**

Do not use this device while driving.

Do not use this device while sleeping.

Do not use this device in high humidity areas such as a bathroom.

Keep the device away from moisture, high temperatures, and direct-sunlight.

Keep this device out of reach of children.

Stop using this device at once if you feel pain, discomfort, dizziness, or nausea and consult your physician.

Do not attempt to move the electrode pads while the device is operating.

Do not use the device around the heart, on the head, mouth, pudendum, or blemished skin areas.

Do not apply stimulation of this device in the following conditions:

- (1) across the chest because the introduction of electrical current into the chest may cause rhythm disturbances to the heart, which could be lethal;
- (2) over painful areas. Please consult with your physician before using this device if you have painful areas;
- (3) over open wounds or rashes, or over swollen, red, infected, or inflamed areas or skin eruptions (e.g., phlebitis, thrombophlebitis, varicose veins). Apply stimulation only to normal, intact, clean, healthy skin;
- (4) in the presence of electronic monitoring equipment (e.g., cardiac monitors, ECG alarms). The electronic stimulator may not operate properly when the electrical stimulation device is in use;
- (5) while operating machinery, or during any activity in which electrical stimulation can put you at risk of injury;
- (6) on children.

Be aware of the following.

- (1) consult with your physician before using this device. The simulation with the device may:
  - i. cause lethal rhythm disturbances to the heart in susceptible individuals, and,
  - ii. disrupt the healing process after a recent surgical procedure;
- (2) that the device is not effective for pain of central origin, including headaches;
- (3) that the device is not a substitute for pain medications and other pain management therapies;

- (4) that the device has no curative value;
- (5) that the device is a symptomatic treatment and, as such, suppresses the sensation of pain that would otherwise serve as a protective mechanism;
- (6) that the long-term effects of electrical stimulation are unknown;
- (7) that the user may experience skin irritation, burns, or hypersensitivity due to the electrical stimulation or electrical conductive medium;
- (8) if the user has suspected or diagnosed epilepsy, the user should follow precautions recommended by his or her physician;
- (9) to use caution if the user has a tendency to bleed internally, such as following an injury or fracture;
- (10) use caution if stimulation is applied over the menstruating uterus;
- (11) use caution if stimulation is applied over areas of skin that lack normal sensation;
- (12) stop using the device if the device does not provide pain relief; and,
- (13) use this device only with the leads, electrodes, and accessories that the manufacturer recommends.

Medical Electrical Equipment needs special precautions regarding electromagnetic compatibility (EMC) and needs to be installed and put into service according to the EMC information provided. Portable and mobile radio frequency (RF) communication equipment can affect Medical Electrical Equipment.

#### Environmental condition for transport and storage



Easily fragile product



Keep the product in the dry place away from water and rain.



Product package should be recycled.



Stacked up 4 cartons at most

## **Indications for Use**

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

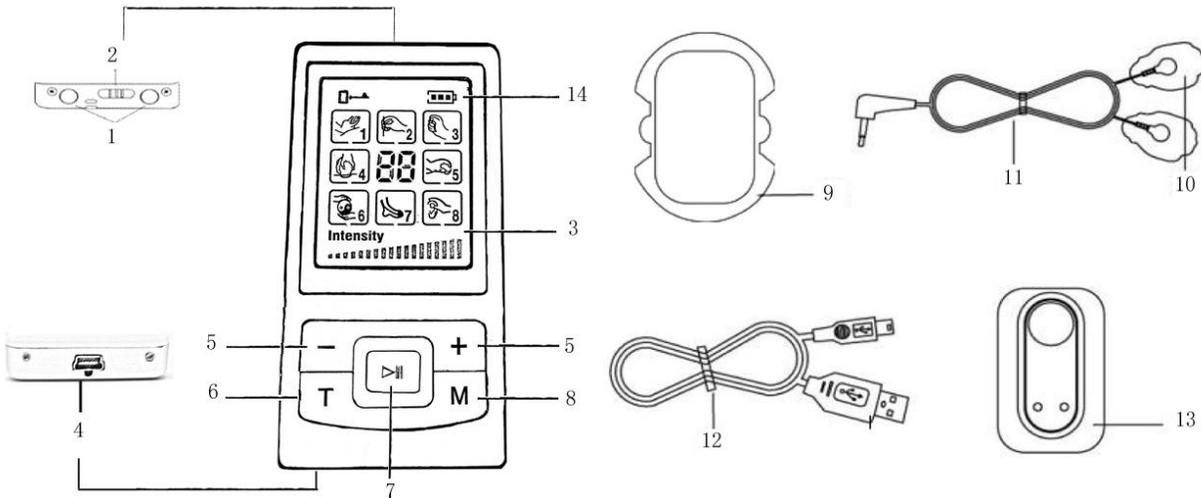
## Specifications

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- Power supply: DC 3.7V
- Output voltage: 4.2 V @ 500  $\Omega$
- Output current: 84mA@500 $\Omega$
- Pulse width: 100 $\mu$ S
- Frequency: 110Hz
- Timer: 10-60 minutes
- Strength level adjustment: 20 levels
- Charger: 100-220V, 50/60Hz, and 10mA (input); DC5V, 300mA (output)

## Operation

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**1. Channels Outlets**

**2. On/Off Switch**

**3. LCD Screen**

**4. USB Port**

**5. Intensity Increase/Decrease**

**6. Timer**

**7. Play/Pause Button**

**8. Mode Selector**

**9. Pads and Wires Collector**

**10. Electrode Pads**

**11. Lead Wires**

**12. USB Cable**

**13. USB charger**

**14. Battery Indicator**

## **To operate**

1. Make sure the power switch of the device is in the OFF position.
2. Connect a pair of electrode pads to one connecting wire by snapping them on; the other end of the connecting wire is connected to the left output of the device. Similarly, the other pair of electrode pads is connected to the remaining connecting wire and the right output of the device.
3. Attach one pair or two pair of the electrode pads to the treatment area, such as shoulder or back.
4. Turn on the device, and both of the left and right outputs are in standby.
5. Pressing the "+" button on the device will increase the intensity of both outputs, and pressing the "-" button will decrease the intensity of both outputs.
6. Press the M button to select a desired stimulation mode.
7. Pressing the central "▶||" button will pause the device; press again to resume.
8. Pressing the T button to select different countdown periods of time from 10 to 60 min.
9. When done, turn off the device, and put away the connecting wires and electrode pads.

**Note:** Start from the lowest intensity, and then gradually adjust to a comfortable level on a scale from 1 to 10.

## **Recommended practices:**

1. Duration of 20 minute for each body area.
2. Frequency of 1-2 times per day per area.
3. Be sure the treatment site is clean of dirt and body lotion.
4. The lifespan of the electrode pads will vary depending on the use frequency and care taken. Keeping electrode pads clean and sealed in the zip bag after use will extend their lifespan. Replace the electrode pads when they lose their adhesiveness.
5. Charge the battery of the device by either connecting the USB cable to the device and computer or connecting the USB cable and charger to the device and wall outlet, if the battery indicator on the display indicates a low battery.

## Troubleshooting

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If your device is not operating properly, please check below for common problems and suggested solutions.

Device does not turn on

- Check if the battery is low and needs to be recharged.
- If the unit was previously used, switch the power to OFF first, then back to ON.

Stimulation is weak or not existent

- Be sure pads are firmly attached to skin.
- Be sure the pads are not touching each other.
- Check the wire connection and make sure the lead wires are securely plugged into the device.
- Check if the battery is low and needs to be recharged.
- Both pads from the same wire must be attached to one person's body in order to feel sensation.

Electrode pads are not sticky

- The pads lose adhesiveness and need to be replaced.

Skin turns red

- Stop the treatment.
- If problem persists, contact your physician.

## Positions for use

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For more information please visit [www.AccuMed.com](http://www.AccuMed.com)