

# POINTER PLUS

## INSTRUCTION MANUAL



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## **INTRODUCTION**

The POINTER-PLUS is an accurate and easy to operate hand held trigger or acupuncture point locator which incorporates an effective push button stimulation feature which may be used for the immediate treatment of the point or area right after its detection.

## **FEATURES**

1. Modern Spring Type Probe Tip

The interchangeable spring type probe provides a constant pressure to the area or points , thus providing better accuracy during point location searching.

It is important to note that any part of the body may be induced to produce a point location signal depending on the amount of pressure used during location. Thus it is important when locating the trigger points to use the lightest and least amount of pressure possible on the surface of the skin. Also, the movement of the probe when searching for the point should be smooth and graceful, always maintaining the same light uniform constant pressure until the correct point is found. The unique spring mechanism of the Pointer Plus probe will aid in correcting for any slight variations in the applied pressure.

## 2. Interchangeable Probes

Two different probes are provided for different applications. The smaller probe may be more suited for ear points, the wider probe would be better for the body.

### 3. Sensitivity Adjustment

The point detection sensitivity is adjustable. The "SEN" knob is used to either increase (clockwise adjustment) or decrease (counter clockwise) sensitivity when use on different skin conditions (i.e. dry or moist skin conditions).

### 4. Hand Grounding Pole Accessory

The patient must hold the hand grounding pole in order to create a complete electrical circuit. This accessory is easily attached or removed from the unit. (Note: this unit may also be used without the grounding pole, however, in this case the practitioner must contact both the grounding plate on the unit as well as hold the bare skin of the patient with his hand to

complete the circuit.) The grounding pole is not necessary when using on oneself providing the grounding plate on the unit is contacted.

#### 5. Immediate Point Location and Treatment

The button on the top of the unit may be pressed to activate the stimulation mode. A continuous electric pulse of 8 to 10 Hz is emitted through the probe, the intensity may also be adjusted from 0 to 45 mA r.m.s. The intensity is controlled with the intensity knob labeled "INT".

**NOTE :** The Stimulation for the Pointer-Plus may be increased by lightly moistening the skin.

## **HOW TO USE THE UNIT**

6. Insert the 9 volt battery onto the battery contact plates, the positive and negative poles of the battery should always be matched correctly with the respective battery contact plates. A 9 volt Duracel or other alkaline battery is recommended for the best performance.
7. The probe may be used for body points and ear points.
8. For self use, touch the grounding metal plate on the front side of the unit and then search for the point.
9. Press each point slightly, the probe uses a spring mechanism so that a constant pressure may be maintained during location. The respective trigger point is located when a continuous sound is heard from the buzzer and at the

same time the LED light located in front of the APD/STI button is flashing continuously.

10. The sound emitted from the buzzer may be muffled or reduced by covering the holes of the metal grounding plate with your thumb.

11. If stimulation is required on this point, simply adjust the intensity knob "INT" to an acceptable level and press the APD/STI button. When this button is released, the unit is immediately returned to the point detection mode. Pressing the APD/STI button again will produce output stimulation.

12. It is recommended to begin treatment with a low intensity setting, thereafter turning the "INT" control until a comfortable intensity is reached.

13. In order to treat patients, the grounding pole must be attached with the plug jack to the bottom of the unit. The patient must hold the grounding pole to complete the electrical circuit which then activates the detection and stimulation functions. The above procedures 6 to 13 are then followed.

14. Turn off the unit after use. Remove the battery from the unit when the device will not be used for a long period.

### **LENGTH OF TREATMENT**

The length of treatment or stimulation time depends on the point or area to be treated as well as other factors. Generally, treatment times may vary from 3,5,or 10 seconds, longer times may also be necessary in some cases. The best treatment times and intensities should be selected based on the practitioners experience and training.



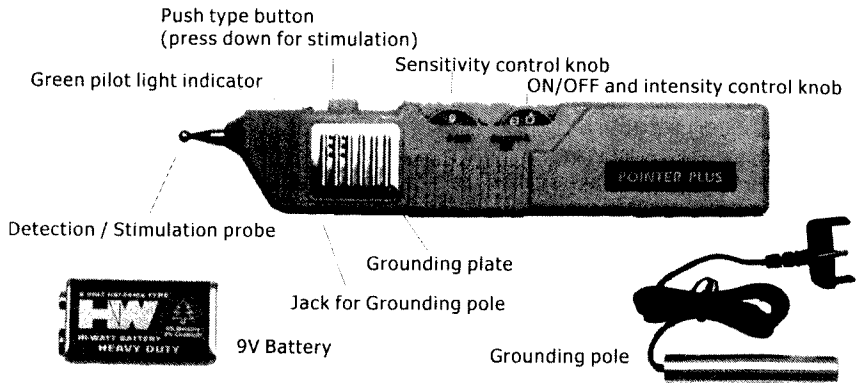
## **PRECAUTIONS:**

Do not use for

- \* Patients with cardiac pacemakers (unless physician approved)
- \* Pregnant women (unless physician approved)
- \* In the areas near or directly around the heart.
- \* Directly over through or near a recent scar fracture site
- \* Over recent scar tissue or new skin.
- \* Over abrasions or cuts.

## **SPECIFICATIONS:**

Size	: 170 x 33 x 23 mm
Output intensity	: 0-45 mA r.m.s
Frequency of output	: 10 Hz
Weight	: 60 gm (unit only), 230 gm (complete set)
Pulse width	: 260 $\mu$ sec
Wave form	: continuous
Wave shape	: biphasic square pulse with negative spike
Power supply	: 9V battery
Accessories	: 2 detection /stimulation probes 1 spare grounding pole 1 hard carrying case 1 instruction manual
Tolerance	: $\pm 10\%$



## **TROUBLE SHOOTING AND SERVICE**

If the device is not functioning properly, check the procedures below to diagnose the problem. If none of these measures correct the problem, the unit should be serviced.

**NOTE:** Do not attempt to repair the unit. Contact your local authorized dealer for repair or service.

<b>PROBLEM</b>	<b>POSSIBLE SOLUTION</b>
<b>Indicator lights up but unit does not function</b>	<p>A. check control settings to ensure they are set to values prescribed by your physician</p> <p>B. check if frequency control is turned on (not too low or at zero setting)</p>
<b>Low battery lamp</b>	Replace battery with a new one.
<b>No indicators light up</b>	Replace battery with a new one.
<b>Sufficient stimulation cannot be maintained</b>	Replace battery with a new one.

## **CARE, STORAGE AND TRANSPORTATION**

The stimulator and metal probe electrodes should be kept clean. The stimulator should not be immersed in any liquid. Avoid rough use to prevent premature failure.

Store unit in a dry location free from dust and contamination where the temperature remains fairly constant and within the range of 16° C to 40° C (61° F to 104° F).

Do not drop, mishandle, or expose to temperature or humidity extremes outside the range of -16° C to 40° C (61° F to 104° F), 15-95% RH non-condensing. Do not use if the unit malfunctions or has been damaged in any manner.

## **LIMITED WARRANTY**

This warranty is in lieu of any other warranty expressed or implied: This Pointer Plus Transcutaneous Electrical Nerve Stimulator (TENS) is warranted to the initial purchase ("purchases") and to no other person against any defects in material and workmanship for a period of **1 year** from the date of purchase. If the stimulator is found to be defective within the warranty period, it will be repaired or replaced if returned prepaid to an authorized dealer. This warranty does not cover damage caused by rental, misuse, negligence, accident, abuse or alteration or modification of the unit. Repairs after the warranty period will be made and charged to the purchaser on the basis of rates which are available on request. Except for personal injury, no liability is held in either tort or contract for any loss or damage, direct, consequential, or incidental arising out of the use, misuse or inability to use this product.

Serial No. \_\_\_\_\_  
(located on the rear side of the unit, next to the battery compartment door)

Date Purchased \_\_\_\_\_  
(It is the purchaser's responsibility to record this information.)

**Manufacture date ...**

Date of Manufacture: see unit

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