



# ProM-710

## Combined Transcutaneous (TENS) Nerve and Electrical (EMS) Muscle Stimulator

- ◆ Dual channel, Digital Operation
- ◆ Large LCD Display

### EMS

- ◆ Three (3) Function Mode:  
Synchronous, Constant, Alternating
- ◆ Pulse: Amplitude and Rate Adjustable
- ◆ Timer: 15, 30, 45, 60 minutes and continuous
- ◆ Cycle On/Off: Adjustable
- ◆ Wave Form: Asymmetrical

### TENS

- ◆ Seven (7) Function Mode:
  - Burst (B): Width Fully Adjustable
  - Continuous Mode (N): Pulse Rate, Pulse Width and Intensity Fully Adjustable
  - Modulated width (M): Pulse Width is Automatically Varied
  - Modulated Rate (MR): Pulse Rate Decreases 50% from Setting Value
  - Modulated Rate and Width (MRW): Alternating Modulated Width and Modulated Rate
  - Strength-Duration and Rate Modulation (SDR): Alternating Modulated Intensity and Pulse Width
  - Strength-Duration Width Modification (SDW): Alternating Modulated Intensity and Pulse Width
- ◆ Patient Compliance Counter
- ◆ Patient Lock System
- ◆ System Includes:  
Stimulator, Lead Wires  
4 Self-Adhesive Reuseable Electrodes  
9 Volt Battery, Instruction Booklet  
Hard Plastic Carrying case
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*See technical specifications on back page*



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### Technical Specifications

Channel:	Dual, isolated between channels
Pulse amplitude:	Adjustable 0-80mA peak into 500 $\Omega$ load each channel, constant current
Pulse Rate:	1Hz-160Hz (adjustable), 1Hz/step
Pulse Width:	a. 50-260 $\mu$ s adjustable for TENS, 1 $\mu$ s/step. b. 250 $\mu$ s fixed for EMS.
Software ramp up feature:	By changing mode, the output will reset to zero; then ramp up to its original setting intensity. This will protect users from a sudden surge.
Patient Compliance counter:	Shows the treatment times in minutes.
Patient Lock System:	Prevent the user from changing any fixed parameters set by the physician or licensed practitioner.
Timer:	15, 30, 45, 60 minute and continuous mode selectable
LCD:	TENS - Show modes, pulse rate, pulse width, timer, CH1/CH2 and TENS on LCD panel. EMS - Show modes, pulse rate, on time, off time, timer, CH1/CH2 and EMS on LCD panel.

### Function Modes:

#### TENS:

B: Cycle Bursts, 2Bursts/sec, 9pulses/Burst, 100Hz, width is adjustable.

N: Continuous mode. Pulse rate, pulse width and intensity are full adjustable.

M: Modulated Width. Pulse width is automatically varied in an interval of 6 seconds. The modulation range of pulse width is from setting value to 35% less than the control setting value. And then returns to the setting value. Rate, width and intensity are fully adjustable.

MR: Modulated Rate. Pulse rate decreases 50% from setting value and then returns to the setting value. Total cycle time is 6 seconds. Rate, width and intensity are fully adjustable.

MRW: Modulated Rate and Width. The MRW consists of alternating modulated width and modulated rate so that one parameter is always decreasing while the other is increasing and vice-versa. Rate, width and intensity are fully adjustable.

SDR: Strength-Duration and Rate modulation. SDR consists of alternating modulated intensity (amplitude) and pulse rate so that one parameter is always increasing while the other is decreasing and vice-versa. The stimulation intensity decreases 20% from the intensity control setting and returns to the setting value; the pulse rate increase 45% from the modulated rate to the setting value and return to the modulated rate. Total cycle time is 6 seconds. Rate, Width and Intensity are full adjustable.

SDW: Strength-Duration and Width modulation. SDW consists of Alternating modulated intensity (amplitude) and pulse width so that one parameter is always increasing while the other is decreasing and vice-versa. The stimulation intensity decreases 20% from the intensity control setting and returns to the setting value; the pulse width increase 54% from the modulated width to the setting value and return to the modulated width. Total cycle time is 6 seconds. Rate, width and intensity are full adjustable.

#### EMS:

S: Synchronous.

C: Constant.

A: Alternating.

On Ramp: Adjustable 1-8 seconds.

Cycle ON Time: Adjustable 1-30 seconds.

Cycle OFF Time: Adjustable 1-30 seconds.

Wave form: Asymmetrical Bi-phasic square pulse.

Max charge per pulse: 21micro-coulombs maximum.

Voltage: 0-110 Volt (Open Circuit).

Power Source: 9-Volt Battery.

Dimensions: 128mm(H) x70mm(W) x26mm(T).

Weight: 175 grams (battery included).

All electrical specifications are  $\pm 10\%$  500 $\Omega$  load.

