

Chapter 8 : TECHNICAL SPECIFICATIONS

The technical specification details of Premier TENS Digital TENS are as follows:

	MECHANISM	TECHNICAL DESCRIPTION
01	Channel	Dual, isolated between channels
02	Pulse Amplitude	Adjustable, 0-110 mA peak into 500 ohm load each channel.
03	Wave Form	Asymmetrical Bi-Phasic Square Pulse
04	Voltage	0 to 55V (Load: 500 ohm)
05	Power source	One 9 Volt Battery.
06	Size	11.8cm(L) x 6cm(W) x 3.1cm(H)
07	Weight	157 grams with battery.
08	Pulse Rate	Adjustable, from 2 to 150 Hz, 1 Hz/step
09	Pulse Width	Adjustable, from 50 to 300 microseconds, 10 μ s/step
10	Mode	Five TENS Modes: B(Burst), N(Normal), M (Modulation Rate & Width), S1(Modulation Width), S2 (Modulation Width)
11	Burst Mode	Burst rate: Adjustable, 0.5 – 5Hz Pulse width adjustable, 50~300 μ s Frequency fixed = 100 Hz
12	Normal Mode	The pulse rate and pulse width are adjustable. It generates continuous stimulation based on the setting value.
13	Modulation Mode	Modulation mode is a combination of pulse rate and pulse width modulation. The pulse rate and width are automatically varied in a cycle pattern. The pulse width is decreased by 50% from its original setting in 0.5 second, then the pulse rate is decreased by 50% from its original setting

		in 0.5 second. Total cycle time is 1 second. In this mode, pulse rate(2-150Hz) and pulse width(50-300 μ s) are fully adjustable.
14	S1 Mode	Pulse width is automatically varied in a cyclic pattern over a nominal 10 second period. Pulse width decreases over a period of 4 seconds from the initial setting to a value 40% less. The narrower pulse width continues for 1 second. It then increases over a period of 4 seconds to its initial setting. The cycle is then repeated. Pulse rate and pulse width are fully adjustable.
15	S2 Mode	Pulse width is automatically varied in a cyclic pattern over a nominal 10 second period. Pulse width decreases over a period of 4 seconds from the initial setting to a value 70% less. The narrower pulse width continues for 1 second. It then increases over a period of 4 seconds to its initial setting. The cycle is then repeated. Pulse rate and pulse width are fully adjustable.
16	Timer	Adjustable, from 5 to 60 minutes minutes and continue(C), 5 minutes each step.
17	Patient Compliance Meter	This unit can store 60 sets of operation records. Total recorded time is 999 hours.
18	Low Battery Indicator	A low battery indicator will show up when the battery is low.