

Care ETS[®]

The New Gold Standard in Neuromuscular Rehabilitation



INDICATIONS:

Muscle Reeducation

Post Orthopedic
Surgery

Post CVA

Care ETS[®] (EMG-Triggered Stimulation) combines the benefits of both biofeedback (EMG) and muscle stimulation. When a patient exceeds their biofeedback target threshold, the muscle stimulation kicks-in to facilitate the contraction beyond the patient's current ability. This synergistic system of EMG-triggered stimulation is the most effective way to treat patients with any type of need for muscle reeducation.

Be Active. Stay Active.

Care ETS®

The New Gold Standard in Neuromuscular Rehabilitation

Easy to read
high resolution
digital display

Belt clip

Dual channel
display

Lightweight,
ergonomic design

Dual channel
biofeedback

EMG-triggered
stimulation

Dual channel
muscle stimulation



SPECIFICATIONS:

EMG

EMG range: 0.2 to 2000 μ V RMS (continuous).
Sensitivity: 0.1 μ V RMS.

Accuracy: 4% of μ V reading +/- 0.3 μ V at 200 Hz.

Selectable bandpass filter - 3db bandwidth:

Wide: 18Hz +/- 4 Hz to 370 Hz

+/- 10% - Reading below 235 microvolts.

Narrow: 100 Hz +/- 5% to 370 Hz

+/- 10% - Reading above 235 microvolts.

Notch filter: 60Hz - 33 dbs (0.1% accuracy).

Common mode rejection ratio:

130 dbs minimum @ 50 Hz.

Battery: PP3 Alkaline.

Work/Rest periods: 2-99 seconds.

Number of trials: 1-99.

NEUROMUSCULAR STIMULATION

Dual channel: Individually isolated circuits.

Amplitude: 0-80 mA; indication only; actual mA will tend to be less than indicated due to electrode impedance.

Type: Constant current waveform: asymmetrical, rectangular bi-phasic with zero DC current.

Pulse width selection: 50 μ S - 450 μ S [2% accuracy].

Pulse rate selection: In the continuous mode 2-100 Hz [2% accuracy].

Output: Selectable synchronous or alternating between channels 1 & 2.

Work/Rest periods: 2 - 60 seconds.

Time: 1 - 180 minutes.

Ramp up time: 0.1 - 9.9 seconds.

Preset and user programmable treatment programs. Automatic output shut off with detection of open electrode above 11 mA.

Low battery indication at 7.4 volts +/- 0.2 volts and automatic shut off 4 minutes after last key pressed, unless infra-red is turned on.

Environmental conditions for storage & transport:

-14 to +95 degrees Centigrade, 0-90% humidity.

Physical dimensions:

Length 5.3", Width: 2.7", Depth: 1.1".

Weight: 6.5 oz.

SUPPORTING RESEARCH AND REFERENCES:

Phys Ther. 1991 Jun;71(6):455-61; discussion 461-4. "Electrical stimulation versus electromyographic biofeedback in the recovery of quadriceps femoris muscle function following anterior cruciate ligament surgery." PMID: 2034708

Arch Phys Med Rehabil. 1992 Mar;73(3):220-7. "Techniques to improve function of the arm and hand in chronic hemiplegia." PMID: 1543423

Br J Urol. 1992 Jun;69(6):584-8. "Subjective and objective effects of intravaginal electrical myostimulation and biofeedback in patients with genuine stress urinary incontinence." PMID: 1638343

Federal Law (USA) restricts this device to sale by or on the order of a physician so licensed by the state.



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