

# FastStart® IF 4000

## Interferential Therapy



Smooth, consistent and powerful interferential stimulation.

- Interferential Neuromuscular Stimulation
- Symptomatic relief of chronic intractable pain and/or management of post-traumatic or post-surgical pain
- Relaxation of muscle spasms
- Prevention or retardation of disuse atrophy
- Increasing local blood circulation
- Muscle re-education
- Immediate post-surgical stimulation of calf muscles to prevent venous thrombosis
- Maintaining or increasing range of motion

**FastStart**<sup>SM</sup>  
Orthopedic Products

800.652.1135

# FastStart® IF 4000

## Product Profile



### AC Adapter

For Continuous 24-hour operation, overrides 20-minute on/off timer.

### Frequency Control

Controls the net frequency (beat frequency per second) obtained by the interference of the carrier frequency and the adjustable frequency in the quadrapolar mode; or controls the net frequency delivered by the premixed bipolar mode.

### Mode Shifting Switch

Allows selection of frequency shift options for stimulation

### Electrodes Switch

Allows selection of "pre-modulated" bipolar (2-electrodes) or quadrapolar (4-electrodes) output configuration.

### Amplitude Control

Adjusts the strength of the stimulation delivered through both channels. The numeric values on the control dial correspond to output stimulation in milliamps.

**CAUTION:** Federal (U.S.A.) law restricts this device to sale by or on the order of a practitioner licensed by law of the State in which he/she practices to use or order the use of the device.

### Unique Features

- The FastStart IF 4000 offers two-channel interferential operation with four electrodes as well as an internally mixed single channel interferential operation with two electrodes.
- The FastStart IF 4000 has four (4) frequency shift options, allowing programming of the unit for specialized rehabilitation needs.
- C Continuous operation (AC adapter overrides 20-minute on/off timer,) allowing continuous treatment up to 24-hours.
- 1|1 Abrupt (square wave function) beat frequency value shifts in one second durations from a 30% decrease to a 60% increase of the set frequency rate. (Thus, at frequency of 10 Hz at 1/1, the net delivered beat frequency would modulate from 7 Hz to 16 Hz every other second).
- 6|6 Abrupt (square wave function) beat frequency value shifts in six second durations from a 30% decrease to a 60% increase of the set frequency rate.
- 6/6 Ramped (triangle function) beat frequency value ramps from a 30% decrease to a 60% increase of the set frequency rate once per 6 second interval, with a slow, up and down ramping transition.
- The FastStart IF 4000 offers a choice between constant stimulation and a neuromuscular stimulation option. The muscle stimulator option has a 6-second ON/6-second OFF duty cycle. All of the frequency shift options work during muscle stimulation.

- The FastStart IF 4000 is portable, wearable and easy to use.
- The FastStart IF 4000 is covered by a three (3) year limited warranty from the date of shipment from the factory.

### Technical Data

- Base Carrier Frequency: 3906 Hz (4000 Hz nominal), fixed medium frequency.
- Adjustable Frequency: Continuous operation: 3907 - 4056 Hz (4001- 4150 Hz nominal), Frequency Shift Mode: 3907 - 4146 Hz (4001- 4240 Hz nominal).
- Interference Frequency: 1-150 Hz (1-150 Hz nominal, Continuous mode), 1-240 Hz.
- Output Configuration: Interferential (4 electrode) and premixed interferential (2 electrode).
- Frequency Shift Options: Continuous, 1/1 abrupt, 6/6 abrupt, 6/6 ramped.
- Waveforms: Symmetric biphasic square with zero net DC.
- Pulse Width: 125 microseconds for each phase.
- Output Current: 0-50 milliamps peak adjustable.
- Output Voltage: 50 volts peak adjustable.
- Power Source: Four (4) alkaline AA batteries, or AC adapter.
- Size: 3.7" x 6.2" x 1.25"
- Weight: 16 ounces (including batteries)

All electrical specification are  $\pm 10\%$  into real 500 ohm resistive load.

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