Interferential Current Therapy Device

Working Principle

By superimposing two or three alternating current signals of different frequencies and amplitudes according to a certain rule, an interference effect is generated. The interference wave acts on the human body, producing a series of physiological responses, such as muscle contraction and nerve stimulation, to achieve the therapeutic purpose.

Technical Parameters

1. Output Channels: Two sets of two-dimensional or one set of three-dimensional interference outputs, supporting single-channel intermediate frequency output.

2. Operating Frequency: 2kHz, 3kHz, 4kHz, 5kHz, 6kHz (five selectable levels).

3. Differential Frequency Range: 1Hz～200Hz.

4. Maximum Effective Value of Output Current per Channel: 60mA.

5. Modulation Frequency: 0～152Hz.

6. Modulation Amplitude: 0%, 25%, 50%, 75%, 100%, tolerance ±5%. 7. Dynamic Rhythm: Ten selectable intervals: 0 (off), 1s, 2s, 3s, 4s, 5s, 6s, 7s, 8s, and 9s, with a tolerance of ±10%; dynamic displacement should not exceed ±30% of the dynamic rhythm.

8. Frequency Difference Period: Four selectable intervals: 1/F (random variation), 15s, 30s, and 60s, with a tolerance of ±10% when selecting 15s, 30s, and 60s.

9. Timing Setting Range: Continuously adjustable from 1min to 99min, with 1-minute increments and a tolerance of ±5%. A buzzer sounds when the treatment time ends.

10. Four fixed prescriptions and one user-defined prescription; digital display and touch button operation.

11. Equipped with a negative pressure pump and using adsorption electrodes, providing a cupping-like effect during treatment.

12. Adsorption electrodes or self-adhesive electrodes are available during treatment.

13. Modulation Waveforms: Six waveforms are available: unidirectional sine wave, unidirectional square wave, unidirectional triangle wave, bidirectional sine wave, bidirectional square wave, and bidirectional triangle wave.

14. The product features open-circuit and short-circuit protection for the output channel.

Applications

This product has anti-inflammatory and analgesic effects on frozen shoulder, lateral epicondylitis, cervical spondylosis, lumbar disc herniation, degenerative osteoarthritis, rheumatoid arthritis, sprains, contusions, fibrositis, muscle strain, stenosing tenosynovitis, sciatica, peripheral nerve injuries, and joint contractures. It also improves local blood circulation and promotes inflammation resolution in cases of myositis and delayed fracture healing. Furthermore, it stimulates neuromuscular function in cases of disuse atrophy, urinary retention, and muscle dysfunction following nerve or muscle injuries.