

# Technical file (EPTEV02V01) EPTE BIPOLAR SYSTEM



The EPTE Bipolar System (EPTEV02V01) device is composed of three current sources (A, B and C) monophasic/biphasic, capable of generating constant currents (galvanic), pulsed monophasic and biphasic currents (symmetric/asymmetric), whose application is used for different treatments of pathologies of the musculoskeletal system acting on this or the central or peripheral nervous system depending on the applied therapy.

## INTENDED USES

### TRANSCRANIAL DIRECT CURRENT STIMULATION (TDCS)

The areas of application of transcranial stimulation are:

- Chronic neuropathic pain.
- Stroke.
- Chronic pain.
- Major depressive disorder (MDD).
- Auditory hallucinations in schizophrenia.
- Fibromyalgia.

Acting on the central nervous system.



## GALVANIC THERAPY.

Percutaneous application of galvanic current for injuries of the musculoskeletal system such as:

- Tendinopathies.
- Plantar fascia.
- Chronic muscle injuries and myofascial pathology.

Acting on the musculoskeletal system.

## MICROCURRENT THERAPY.

Same uses foreseen in transcutaneous and percutaneous application:

- Muscle damage.
- Chronic wounds.
- Tendinopathies.
- Acute and chronic pain of musculoskeletal origin:
  - Lumbar pain.
  - Cervical pain.
  - Pain due to temporomandibular joint disorders (TMJ).
  - Knee osteoarthritis pain.
  - Post-operative pain.
  - Neuropathic pain.

Acting on the musculoskeletal system and peripheral nervous system. •

## ELECTROSTIMULATION THERAPY

### ELECTROACUPUNCTURE THERAPY (EA)

Percutaneous application:

- Stroke.
- Urinary incontinence.
- Acute and chronic pain of musculoskeletal origin:
  - Lumbar pain.
  - Post-operative pain.
  - Knee osteoarthritis pain.
  - Primary headache.
  - Chronic pelvic pain.
  - Pain of myofascial origin.
  - Pain due to painful bladder pathology.

Acting on the musculoskeletal system and peripheral nervous system.

## PERCUTANEOUS ELECTRICAL NERVE STIMULATION (PENS)

Percutaneous application:

- Fecal incontinence.
- Overactive bladder syndrome.
- Acute and chronic pain of musculoskeletal origin:
  - Chronic low back pain.
  - Postoperative pain.
  - Neuropathic pain.
  - Chronic cervical pain.

Acting on the peripheral nervous system.

## TRANSCUTANEOUS ELECTRICAL NERVE STIMULATION (TENS).

Transcutaneous application:

- Stroke.
- Acute and chronic pain of musculoskeletal origin:
  - Myofascial pain.
  - Pain due to temporomandibular joint disorders (TMJ).
  - Knee osteoarthritis pain.
  - Pain due to muscular tension dysphonia.
  - Lumbar pain.
  - Post-operative pain.

Acting on the peripheral nervous system.

## MULTI-PULSE SYSTEM ELECTROSTIMULATION (SMP).

Same uses foreseen in transcutaneous and percutaneous application:

- Acute and chronic pain of musculoskeletal origin:
  - Lumbar pain.
  - Postoperative pain.
  - Pain due to temporomandibular joint disorders (TMJ).
  - Headache.
  - Rheumatoid arthritis pain.
  - Osteoarthritis knee pain.
  - Chronic neck pain of myofascial origin.

Acting on the peripheral nervous system.

## TECHNICAL SPECIFICATIONS

The EPTE BIPOLAR SYSTEM is the only electrical stimulator on the world that combines invasive peripheral stimulation and central stimulation with tDCS direct current in a single device, allowing the entire nervous system to be worked in an integrated manner.

## OVERVIEW

First neuromuscular stimulation device on the market **certified by MDR in the EU** and approved for:

### - NON INVASIVE

**tDCS:** Chronic pain, neuropathic pain, fibromyalgia, stroke, major depression, schizophrenia in a single device.

### - INVASIVE

**NMP:** Muscle pain and dysfunction.

**EPTE:** Tendon dysfunction, fibrillar rupture, myofascial pathology.

## EXCLUSIVE PROTOCOLES DEVELOPED BY IONCLINICS/NMP/NIP

**Theta Burst (TB):** We seek analgesia by means of a non-painful potentiation of the somatosensory system. The Theta Burst is a flagship protocole of this software.

**High Intensity Burst (HIB):** the objective is to generate analgesia by activating the nociceptive pathway (classically known as counter-irritation analgesia).

## ONLY DEVICE WITH:

- **Configuration of two independent mode ranges:** in different frequencies, sweeps, time between them and intensities in the same protocol.

*This allows you to program in a fully automatic way protocols such as: 2hz for 3 seconds + 100hz for 3 seconds, total duration 30 minutes, applied with low intensity.*

- **Convenient and fast use**, being able to access preset or saved protocols in two steps.
- **Library of presets** by type of therapy, with better organization and easy access.
- **Possibility to work independently** galvanic protocols and microcurrents.
- Modification of **galvanic therapy intensity** without affecting the programmed time.
- **Adjustment of tDCS ramps**, with the possibility of longer entry and exit ramps.
- **All EU-approved indications** for use in a single device for tDCS.