

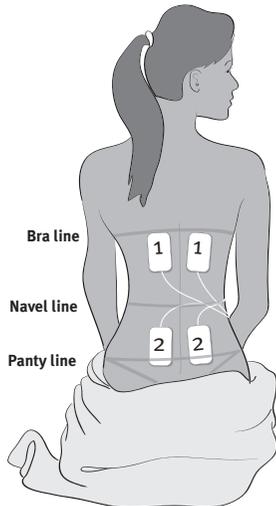
## Suggested Electrode Placement Chart

The sticky electrode pads need to be placed in the correct position for maximum pain relief. It is preferable to obtain assistance from either your birthing partner or medical adviser when positioning the pads. Please read the following instructions carefully:

1. Ensure unit remains switched off. Carefully peel the pads from the plastic backing using your forefinger and thumb. Do not pull on the lead wires.

2. Position the top two pads (connected to the left socket CH1) approximately 4cm either side of the spine and 4-5cm above the imaginary navel line as seen in the diagram.

3. Position the bottom two pads (connected to the right socket CH2) approximately 4cm either side of the spine and 4-5cm below the imaginary navel line as seen in the diagram.



Reference: Cluett E. (1994) SRN RM ADM PGCEA. Analgesia in Labour: A review of the TENS method. Professional Care of Mother and Child. Mar;4 (2): 50-2.

7

## Frequently Asked Questions

### Q When shall I start using my Obi TENS +?

A Use as early as you can after the onset of labour to allow time for your body's pain-killing chemicals to rise.

### Q Can I try the Obi TENS + before going into labour?

A Yes, place 2 pads attached to one leadwire on your forearm to feel the different pulse sensations following the instructions on page 6.

### Q Can I combine the Obi TENS + with other medication?

A Yes, you can still use analgesics such as gas and air (entinox) or pethidine.

### Q Can the Obi TENS + be used in hospital?

A Yes. However, a midwife may ask you to switch it off temporarily.

### Q Can I use the Obi TENS + if I am considering a water birth?

A Yes, but not in the water itself.

10

## Using Your Obi TENS +

a) You are now ready to start using your Obi TENS +. Switch the unit on by pressing the **ON/OFF** button. The Obi TENS+ will always start up in BURST 1 mode.

b) Begin by pressing the **CH1+** key. Each time you press this key, a small 'half-moon' shape will appear on the screen increasing in number and size as the intensity is increased. You will begin to feel a pulsating sensation which will burst in time with the small arrow flashing on the screen. **Ensure that you increase the intensity slowly.**

c) Repeat the previous step with the **CH2+** key. You will now feel a sensation in both sets of pads.

8

## Useful Information

- Continue stimulation for as long as necessary, unless you experience discomfort.
- If you stimulate for a number of hours ensure the pads do not become dry. If this occurs, switch off the unit, disconnect the electrodes, and apply a small drop of water to them.
- The pads can be used several times. Replace the pads when they stop sticking to the skin. Replacement pads are available from [www.babycaretens.com](http://www.babycaretens.com).
- Always ensure that the unit is switched off before you remove all the leads and pads. Do not pull the wires. ALWAYS remove the jack plug from its socket by holding the plug between the forefinger and thumb and pulling gently.
- The Obi TENS + can also be used as a standard TENS unit for relief of numerous conditions, including after pains and post operative pains. It is worth bearing this in mind if you have a caesarean section. Please seek medical advice first.

11

d) **BURST 1 (use between contractions):** This is the first mode that you will use. It feels like a bursting, tingling sensation i.e. the pulses are off and on periodically. This mode will help to promote those all-important natural pain-killing chemicals known as 'endorphins' and 'encephalins'.

e) **BOOST 1 (use during contractions):** When experiencing a contraction, simply press the 'boost' button located on the left side below the screen. The Obi TENS+ will then switch automatically into the BOOST 1 mode for that extra surge of power required to combat the pain during contractions. This will feel like a continuous sensation.

f) Once the contraction has passed, simply press the 'BOOST' button. The Obi TENS+ will return to the original BURST 1 mode. Continue this cycle during your early stages of labour.

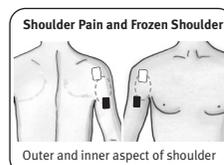
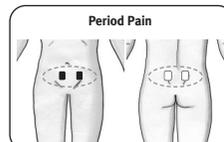
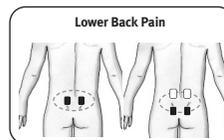
## Post-Natal Pad Placement Diagrams

KEY:

■ ■ = first pair of electrodes

□ □ = second pair of electrodes.

N.B. Electrodes supplied with this unit are all the same colour - the black and white squares show suggested electrode placement only.



9

## Using the Between Contraction Timer (BCT) timer

When in BURST mode, the unit automatically measures your BCT. This appears at the bottom of the display. When you switch to BOOST, the last BCT will remain at the bottom of the display. The BCT will always refresh when re-entering the BURST mode from the BOOST mode and will record the next BCT.

N.B. The Obi TENS+ starts up in BURST Mode. The BCT only appears after one cycle of pressing the Boost Button on and off.

## Recalling contraction history

To recall a list of your last 5 'BCTs' press the CH1- and CH2- buttons simultaneously. The 1st symbol you will see is a single moon (which is the last BCT).

Use CH2+ to reveal up to 5 BCTs. Use CH2- to review more recent BCTs. Recalling the contraction history will not disable functionality of the unit. To return to the main screen press the CH1- and

CH2- buttons simultaneously. N.B. To avoid losing contraction history, do NOT switch unit off. Remove the batteries if you wish to reset the contraction history.

## The Mode Button

There are two modes available on the Obi TENS+, each with a BURST and BOOST function.

**Mode 1 (Burst 1 and Boost 1),** which has been described above, is primarily used for the earlier stages of labour.

**Mode 2 (Burst 2 and Boost 2)** can be used when your labour advances and your contractions become more frequent.

Press the Mode button to switch between modes. You will see from the User Display, that the number next to the BURST or BOOST will change from 1 to 2 and vice-versa.

N.B. Both modes are interchangeable and can be used according to your preference, not necessarily for the stage of labour you are in. Mode 2 can be operated in the same way as mode 1.



## Obi TENS + Technical Data

Display	TN type LCD		
<b>Operation Mode</b>	4 treatment modes: Burst 1, Burst 2, Boost 1, Boost 2		
	Pulse (Hz) Frequency	Pulse Width (µs)	Description
<b>Burst 1</b>	16	150	1 Burst/sec and 8 pulses per burst
<b>Burst 2</b>	32	150	2 Burst/sec and 8 pulses per burst
<b>Boost 1</b>	80	150	Constant
<b>Boost 2</b>	100	150	Constant
	- Output Voltage: 0 – 55V zero to peak at 500Ω load - Output Waveform: Symmetrical biphasic rectangular		
<b>Automatic Power Off</b>	5 Minutes		
<b>Output Channel</b>	Two Channel		
<b>Output Voltage</b>	0 – 55V (zero-to-peak) across a 500Ω load; adjustable in 14 steps		
<b>Output Intensity</b>	0 – 110 mA (max.) into a 500Ω load		
<b>Output Waveform</b>	Symmetrical bi-phasic rectangle		
<b>Output Jacks</b>	CE Touch-proof jacks		
<b>Load Detector</b>	Contact detection between the device and human skin (This feature is activated from Level 2 and up)		
<b>Battery</b>	2 X 1.5V AAA Battery		
<b>Battery Low Detect</b>	2.2V ±0.2V		
<b>Tolerances</b>	All output parameters are subjected to a ±20% tolerance unless other specified.		
<b>Weight</b>	52g		
<b>Size</b>	40 x 125 x 20mm		

12

### Guarantee

Your Obi TENS + machine is guaranteed for a period of 1 year against manufacturer's defects. Please record purchase details in the space provided below for your record purposes. The guarantee does not include leads, electrodes or battery. Applies to purchases only.

**Date of purchase:**

**Invoice number:**

## Babycare TENS®

**Babycare TENS**  
108 George Lane, South Woodford,  
London E18 1AD

Tel (+44) (0)20 8532 9595  
Fax (+44) (0)20 8532 9551  
[www.babycaretens.com](http://www.babycaretens.com)

e-mail [customer@babycaretens.com](mailto:customer@babycaretens.com)

Fuji Dynamics Ltd, Unit C,3/F, Manley Tower,  
No828 Cheung Sha Wan Rd, HK

Babycare TENS is part of the  
Body Clock group of companies

body clock



0120

July 2017 (1)



This manual is recyclable

## Obi TENS + Quick Reference Guide

If you are in labour, please use the quick reference guide set out below. It is however recommended that you read the section entitled "Setting Up Your Obi TENS +", found on page 5 to obtain the best performance from your unit.

Before using the Obi TENS +, please read the contraindications and warnings on pages 1 to 2.

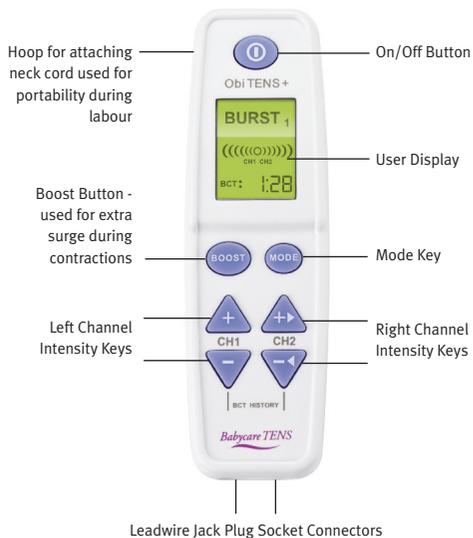
1. Ensure the Obi TENS + unit is switched off.
2. Insert 2 x AAA batteries in the compartment at the back of the unit (see figs 1 and 2, page 6).
3. Insert the leadwire plugs into the bottom of the unit (see fig 3, page 6).
4. Insert the pins at the other end of the leadwires into the sockets attached to the electrode pads. Do not remove the electrodes from their backing at this stage (see fig 4, page 6)
5. Position the electrode pads on the body as indicated on

page 7. A pair of electrodes must be connected to each lead wire in order for you to feel any sensation. The electrode pads must be peeled away from their backing and placed directly on your body for you to feel any sensation.

6. Press the **⏻** (on/off) to turn the unit on. The unit will automatically begin operating in burst mode.
7. Now push the **▲** (CH1+) key until you feel a pulsating sensation in the first pair of electrodes.
8. Repeat the same with the **▲** (CH2+) key for the second pair of electrodes.
9. At the onset of a contraction press the "boost" **⚡** button for the additional surge of power needed to combat the pain.
10. Press the "boost" **⚡** button again once the contraction has passed and continue in the BURST 1 mode as before.
11. See page 9 for using the Contraction Timer.

## Controls For The Obi TENS +

The Obi TENS + is very simple to use. However, it is advisable to read these instructions to obtain the most out of the unit. Please ensure that all of the precautions and contraindications have been read thoroughly. See pages 1 to 2.



3

## Contents

Obi TENS + Quick Reference Guide

How Will The Obi TENS + Help Your Pain? 1

Introduction To The Obi TENS + ..... 1

When Should TENS Not Be Used? ..... 2

Controls For The Obi TENS + ..... 3

Display Symbols and their Meanings. 4

Setting Up Your Obi TENS + ..... 5

Useful Diagrams ..... 6

Suggested Electrode Placement Chart ... 7

Using Your Obi TENS + ..... 8

Troubleshooting Questions ..... 10

Frequently Asked Questions ..... 10

Useful Information ..... 11

Post natal pad placement diagrams...11

Technical Specifications ..... 12

## Explanation of Symbols on Unit



Equipment providing a particular degree of protection against electric shock particularly regarding allowable leakage currents having an F type (floating) applied part.



Warning - refer to page 2 of these instructions.



Denotes a product which must be disposed of safely.



This symbol indicates the serial number of the device and includes the year of manufacture. The serial number can be found in the battery compartment of this device.



This unit needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the ACCOMPANYING DOCUMENT.

## Display Symbols And Their Meanings



**Power Bar:** This shows the output from 0 to 15 for both left and right channels. Each segment represents approximately 7% of the total output.

## BOOST

Pressing the 'Boost' button activates the Boost mode. This function is used during contractions. There are two Boost modes available indicated by a 1 or 2 next to the word BOOST.

You can switch between them by pressing the Mode key.



Please keep device away from sprays of water or rain.

## IP22

The first number 2: Protected against access to hazardous parts with a finger, and the jointed test finger of 12 mmΦ, 80 mm length, shall have adequate clearance from hazardous parts, and protected against solid foreign objects of 12.5 mmΦ and greater.

The second number 2: Protected against vertically falling water drops when enclosure tilted up to 15°. Vertically falling drops shall have no harmful effects when the enclosure is tilted at any angle up to 15° on either side of the vertical.



Denotes a product which must be disposed of safely.



This symbol indicates the serial number of the device and includes the year of manufacture. The serial number can be found in the battery compartment of this device.

## BURST

This function is used at the onset of labour and in-between contractions. There are two Burst modes available indicated by a 1 or 2 next to the word BURST. You can switch between them by pressing the Mode Key.



**Low Battery Indicator:** This sign will start flashing if the batteries are running low. If this is the case, change both batteries. Please refer to page 5 for instructions.

**BCT:** Between Contraction Timer.

This automatically measures the time interval between your contractions.



**Pad contact warning (safety cut-out)** This symbol will appear if any of your pads are not attached securely to the skin.

## How Will The Obi TENS + Help Your Pain?

TENS (Transcutaneous Electrical Nerve Stimulation) works by passing mild electrical impulses through the skin, via electrode pads, into the nerve fibres which lie below. The TENS impulses help your body produce its own pain killing chemicals, such as 'endorphins' and 'encephalins'.

The level of pain relief obtained varies from person to person. Some find that the Obi TENS + provides all the pain relief required during the whole of labour, whereas others find that other analgesics are also needed during the later stages of labour.

## Introduction To The Obi TENS +

The Obi TENS + uses a state-of-the-art, efficient method of drug-free pain relief with no known side effects. In order to obtain maximum benefit, it is advised that you seek guidance from your medical adviser as well as reading this instruction guide.



## Precautions And contraindications

1. TENS must **NOT** be used before the 37th week of pregnancy.
2. If you are pregnant, do **NOT** place the electrodes over your abdomen.
3. Do **NOT** use if you have a pacemaker or any other implanted electrical device.
4. Check with your healthcare professional before using if you suffer from a heart condition, epilepsy, undiagnosed pain, have any metal implants, or any doubts whatsoever.
5. Do **NOT** use if you experience an allergic reaction to the electrodes.
6. Never use TENS to mask undiagnosed pain since this could require urgent treatment.

1

## General Precautions

1. Do **NOT** use this unit without first reading these instructions.
2. Do **NOT** immerse the Obi TENS + in any liquid. Do not use in the bath or the shower.
3. Do **NOT** place it close to any source of excessive heat or operate it in the presence of flammable gas.
4. Do **NOT** drop this unit onto a hard surface.
5. Do **NOT** attempt to dismantle the Obi TENS +.
6. Only use specified batteries and electrodes.
7. If damaged, do not use. Return to supplier.
8. Remove the batteries when not in use.
9. Do **NOT** use while driving or operating potentially dangerous machinery or while using a microwave.
10. Keep out of the reach of children.

2

11. Do **NOT** place electrodes on or near the eyes, in the mouth, over the front or sides of the neck or across the head or the heart.
12. Do **NOT** place the electrodes on varicose veins or recent scarring or on any area of broken, inflamed, infected or numb skin. Electrodes should generally only be applied to skin with normal sensation unless under medical supervision.
13. Do **NOT** use in the presence of tuberculosis, malignant tumours, very high or very low blood pressure, high fever or acute inflammatory disease unless under medical supervision.
14. A mild shock may be caused if one electrode is accidentally removed. In the event of this happening the unit should be turned off immediately.

## Setting Up Your Obi TENS +

### Check the following contents:

- 1 x Obi TENS + unit
- 1 x Pack of 4 self adhesive electrodes (40mm x 100mm)
- 2 x Leadwires
- 2 x AAA batteries
- 1 x Carrying pouch
- 1 x Easy-release neck cord
- 1 x Instruction manual
- 1 x EMC documentation

### The Assembly Stage

- a) Remove the cover to reveal the battery compartment (see fig 1, page 6).
- b) Insert 2 x AAA batteries (see fig 2, page 6), ensuring the positive (+) and negative (-) terminals are correctly positioned as marked in the battery compartment. Replace the cover. **Ensure the unit is switched off.**

- c) Take the two white leadwires and insert each of the black jack plugs (at one end of each leadwire) into the sockets at the bottom of the Obi TENS + unit (see fig 3, page 6).

- d) Now insert the pins (at the other end of the leadwires) into the sockets attached to the sticky electrodes. Each leadwire has two pins, ensure each pin is attached to an electrode. Do not remove the electrodes from the backing at this stage (see fig 4, page 6).

- NB. Each leadwire has a red and black pin. It makes NO difference whatsoever which electrode they are attached to!**

- e) If you wish, attach the easy-release neck cord which enables you to hang the Obi TENS + from your neck whilst in labour (see fig 5, page 6). Now position your electrodes (see page 7).

5

## Useful Diagrams



Figure 1



Figure 2



Figure 3

**Inserting the battery**  
Remove the cover to reveal the battery compartment.

Insert 2 x AAA batteries as shown on the diagram inside the battery compartment.

**Connecting the leads**  
Insert both black jack plugs into the sockets.

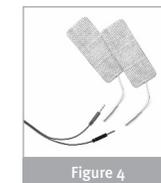


Figure 4



Figure 5

**Connecting the Electrode Pads**  
Insert a red and black pin (at the end of each lead wire) into each pair of electrodes.

**Using the Neck Cord for mobility during labour**  
Thread the loop of the neck cord through the space at the top of the unit. Slip the other end of the neck cord through the loop and pull into position.

6

4