



Using Your Smart TENS

The Smart TENS has 4 TENS modes. Each has been designed to provide a different sensation.

You can use any of the TENS modes to treat your pain. The table below sets out a brief description of the sensation each mode provides:

Mode	Description
CONSTANT	Pulses are continuous and feel like a tingly sensation. Refer to page 3 of the accompanying book "An Easy Guide", for explanation.
BURST	Pulses are off and on in a regular cycle and will feel like a heart beat. Refer to page 3 of the accompanying book "An Easy Guide", for explanation.
MASSAGE	The pulse decreases and then increases in regular cycles creating a massaging sensation.
MIXED (Dense Disperse or Han Stimulation)	3 seconds of Constant and 3 seconds of Burst as described above. *Professor Han suggests that switching between these two modes produces a simultaneous activation of the encephalin and dynorphin systems which creates a more potent analgesic effect to combat pain.

To Commence Treatment

- Carefully peel the electrodes from the plastic backing, using your forefinger and thumb. Place on you body as shown on the diagrams found in your

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- Easy Guide to TENS Pain Relief.
- Switch the unit on by pressing the On/Off Button. Your unit will automatically start up in the Constant mode the first time you use it.
- Begin by pressing the CH1+

Please refer to your "Easy Guide to TENS Pain Relief"(UK only) for electrode placement charts, troubleshooting and general TENS information.

TENS - Frequently Asked Questions

- Q Is it safe?**
A Yes, TENS is used widely for pain relief and is recommended by medical professionals.
- Q Can I use it with other medications?**
A Yes, TENS is drug-free so you can use it with any other medication including paracetamol.
- Q What conditions can TENS be used to treat?**
A TENS can be used to treat numerous pain conditions. If you are unsure about using TENS please consult your medical adviser or contact Body Clock Health Care on +44 (0)20 8532 9595.

- Q Can I use the Smart TENS for labour?**
A This is not recommended as it does not include the boost function required for use during contractions. For information on TENS for use during labour, please visit www.babycaretens.com or call +44 (0)845 230 9737.

Troubleshooting Questions

- Q Why does the pulse sensation not appear to be as strong after you have used the Smart TENS for a while?**
A Increase the intensity, you may have become acclimatised to a lower setting.
- Q Why does the pulse sensation feel strong but ineffective?**
A You may need to reposition the electrode pads (don't forget to switch the Smart TENS off before doing so).
- Q Why does the sensation not feel sufficiently strong even on a high setting?**
A The batteries may need replacing.

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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 tingling sensation. Repeat step 3 with the CH2+ key. You will now feel a sensation in both sets of pads.

5. The Mode Key. The Smart TENS has 4 modes as described in the table on page 8. These modes are selected by pressing the Mode Key allowing you to choose whichever you find to be the most comfortable. Varying the modes helps to avoid or delay your body becoming used to any particular setting.

- Pulse Width Adjustment:** An added facility giving extra versatility to your TENS unit. Increasing or decreasing the pulse width heightens or lessens the sensation at the site of the electrodes. This is fully adjustable between 20μ and 250μ in steps of 10μ for all modes on the Smart TENS and can be altered by pressing the PW key. (μ = microseconds)
- Timer Key:** Allows you to set your length of treatment.

The are 5 settings:
Continuous, 15mins, 30 mins, 45 mins and 60 mins.

- Continue stimulating for as long as necessary but preferably for no less than 30 minutes, unless you experience discomfort.
- Some people achieve pain relief after short periods of time. Others may require to use their TENS for a lot longer.
- If you continue to stimulate for a number of hours check you to make sure your self-adhesive electrodes have not dried out. If this is the case, dampen them slightly. If electrodes are allowed to dry out this can cause minor skin irritation.
- Always ensure the unit is switched off before you remove the leads. Do not pull the wires. Always remove the jack plugs from their sockets by holding the plugs between the forefinger and thumb.

Additional Information

Automatic Power Off - When the unit intensity levels are zero, and it has not been in use for about 5 minutes, the unit will shut off automatically.

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Technical Data

Display	8 seven segment digits and around 95 segments		
Operation Mode	Four modes: • Constant • Burst - 32Hz-2 bursts per second, 8 pulses per burst • Massage - 100Hz - fixed frequency modulating on pulse width • Mixed - 3 second in mode 1, 3 seconds in mode 2, repeat		
Constant	Pulse (Hz) Frequency	Pulse Width (μs)	Display
Burst	100 2 (16 pulses per burst)	20-250 20-250	CONSTANT
Massage	100	20-250	BURST
Mixed	2 and 100 (repeated)	20-250	MASSAGE
			MIXED
Timer	Countdown timer has 5 settings • Continuous • 15 Minutes • 45 Minutes • 60 Minutes • 30 Minutes		
Automatic Power Off	5 Minutes		
Output Channel	Dual Channel		
Output Voltage	0-60V adjustable in 15 steps (500Ω load, peak to o)		
Output Intensity	0 - 120mA adjustable in 15 steps (500Ω load). Intensity level will drop back to 0 after mode changes		
Output Waveform	Asymmetrical bi-phasic rectangular		
Output Jacks	CE touch-proof jacks		
Load Detector	Contact detection between the device and human skin		
Battery	2 x 1.5V AA Battery (Type LR6)		
Battery Low Detect	2.2V±0.2V		

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Instructions for use

Smart TENS™



ISO 9001 ISO 13485
EC DIRECTIVE 93/42/EEC Annex V

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This manual is recyclable

body clock

The Smart TENS is a state-of-the art, efficient method of drug-free pain relief. This powerful digital TENS unit is smooth, sophisticated and simple to use. It has 4 pre-set modes for ease of use.

TENS is recognised as a safe and highly effective method of pain relief and is regularly recommended by medical professionals.

TENS is drug-free, with no known side effects. It can also be used in conjunction with any additional medication if required.

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.

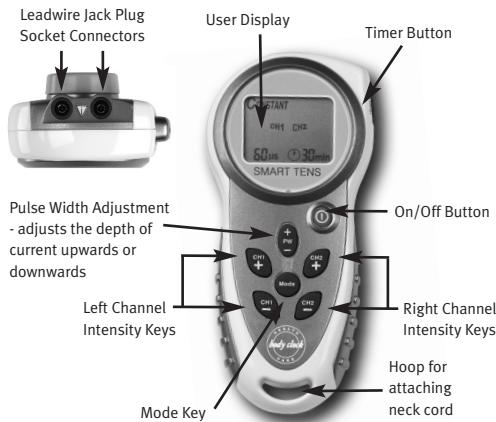
 Warning - refer to page 4 of these instructions.

 Denotes a product which must be disposed of safely.

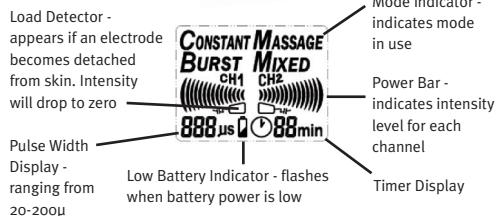
 This symbol indicates the serial number of the device and includes the year of manufacture. The serial number can be found in the battery compartment of this device.

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Controls On The Smart TENS



User Display



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What Is TENS?

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

What Can TENS Be Used For?

TENS can be used for many chronic and acute pain conditions such as back pain, shoulder pain, arthritis, sciatica, sports injuries, migraine, period pain and post-operative pain.

 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.

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Setting Up Your Smart TENS

Check you have the following contents:

- 1 x Smart TENS unit
- 1 x Pack of self-adhesive electrodes
- 2 x Leadwires
- 2 x AA batteries
- 1 x Neck cord
- 1 x Carrying pouch
- 1 x Easy Guide to TENS

The Assembly Stage

- a) Press and rotate the belt clip at the back of the Smart TENS in either direction to reveal the battery compartment (see fig 1, page 7).
- b) Release the battery compartment cover and insert 2 x AA batteries (see fig 2, page 7), ensuring the positive (+) and negative (-) terminals are correctly positioned as marked in the battery compartment. Replace the cover.

- c) Take the two blue leadwires and insert each of the black jack plugs (at one end of each leadwire) into the sockets at the top of the Smart TENS unit (see fig 3, page 7).

- d) Now insert the pins (at the other end of the leadwires) into the sockets attached to the sticky electrodes. Do not remove the electrodes from the backing at this stage (see fig 4, page 7).

- e) If you wish, attach the easy-release neck cord which enables you to hang the Smart TENS from your neck (see fig 5, page 7).

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Precautions And Contraindications

1. Do **NOT** use the Smart TENS if you have a cardiac pacemaker.
2. Check with your medical adviser before using if you suffer from a heart condition, epilepsy, undiagnosed pain, have any metal implants, or any doubts whatsoever.
3. TENS must **NOT** be used before the 37th week of pregnancy.
4. Never use TENS to mask undiagnosed pain since this could require urgent treatment.
5. If you are pregnant, do **NOT** place the electrodes over your abdomen.
6. Keep out of the reach of children.
7. Do **NOT** place electrodes on or near the eyes, in the mouth, over the front or sides of the neck, across the head, heart, or an area of broken, inflamed, infected or numb skin. Electrodes should generally only be applied to skin with normal sensation unless under medical supervision.
8. Do **NOT** use in the presence of tuberculosis, malignant tumours, very high or very low blood pressure, epilepsy, high fever or acute inflammatory disease unless under medical supervision.

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Useful Diagrams



Figure 1



Figure 2



Figure 3

Inserting the battery

Press and rotate the belt clip to reveal the battery compartment.

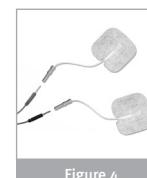


Figure 4



Figure 5

Connecting the Electrode Pads

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

 Before first use of the Smart TENS, please familiarise yourself with the warnings and contraindications contained on page 4.

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Connecting the Leads

Release the battery compartment and insert the batteries.

Insert both black jack plugs into the sockets.

Using the Neck Cord for mobility during labour

Thread the loop of the neck cord through the space at the base of the unit. Slip the other end of the neck cord through the loop and pull into position.