

Body Clock Duo

Instruction Manual

Caution:

Federal Law restricts this device to sale or use by or on the order of a practitioner so by licensed the State.



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Introduction: To patient and professional

The Body Clock Duo is designed for dual functionality - it can be operated as a TENS (transcutaneous electrical nerve stimulator) for the treatment of symptomatic relief and management of chronic intractable pain and/or as an adjunctive treatment in the management of post-surgical and post-traumatic acute pain. Alternatively it can be used as an EMS unit (electronic muscle stimulator) for the:

- 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

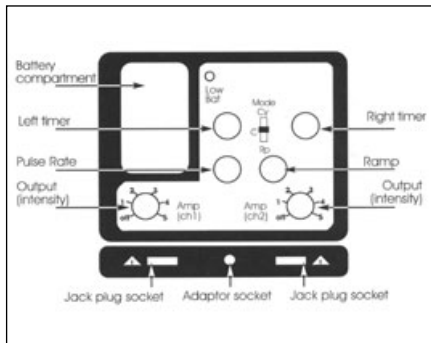
- Maintaining or increasing range of motion.

Powered muscle stimulators should only be used under medical supervision for adjunctive therapy for the treatment of medical diseases and conditions.

The instructions in this manual are designed to cover most operational issues. However if you have any questions about your particular condition or if problems arise, please seek advice from your physician or therapist.

Description of the Body Clock Duo

The Body Clock Duo is a dual channel TENS (Transcutaneous Electrical Nerve Stimulator) and EMS (Electrical Muscle Stimulator) unit. The Body Clock Duo is a compact, hand held device. Its dimensions are $4\frac{1}{8}'' \times 3\frac{3}{8}'' \times 1\frac{3}{8}''$ and it weighs 200 grams with its battery.



Casing: The unit is housed in a robust, protective casing, which can be closed when the unit is not being operated. Once opened, the user can operate the unit using the dials and switches located on the face of the unit.

Timers: There are two Timer Control Dials located on the upper-face of the unit, providing timer control for each channel.

Modes: Located between these dials, is the Mode Selector Switch. When using the Body Clock Duo as a TENS unit, the modes that are available are burst, continuous and modulation. When using the Body Clock Duo as an EMS unit, the modes are cycle, reciprocal and continuous.

Pulse Rate: Below the left-hand-side timer dial is the Pulse Rate Dial, which

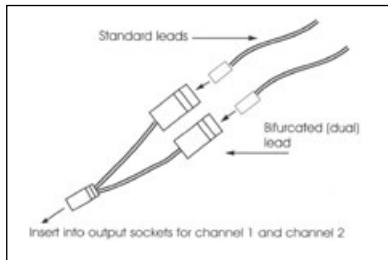
sets the pulse rate for both channels.

Ramp Control Dial: Below the mode selector switch is the Ramp Control Dial, which controls the contraction speed when operating as an EMS unit.

Intensity Control: There are two Output (intensity) Dials, which adjust the power flow between from between 0-100Hz

Bifurcated Leads: On the bottom edge of the unit are two jack plug sockets. This would ordinarily enable the use of 4 electrodes. However, the Body Clock Duo's distinctive design allows the use of bifurcated leads, providing an 8-pad facility. This enables the treatment of 4 areas at once for either pain relief or the electrical stimulation of muscles.

Power: In between the jack plug sockets, is the AC/DC adapter socket.



An AC/DC adapter can be used to power this unit instead of the PP3 battery. The compartment for the PP3 battery is found on the face of the unit, The low battery indicator light is found to the right of this compartment.

Belt Clip: For comfort, the back of the unit has a detachable belt clip.

Using the Body Clock Duo as a TENS Unit

What is TENS and How does it work?

TENS stands for Transcutaneous Electrical Nerve Stimulation. The treatment consists of passing mild electrical impulses through your skin into the nerve fibers that lie below. Contact is made with your skin via electrodes. TENS electrodes are placed around or over the painful area.

In 1965, researchers Melzack and Wall presented their concept of a “gate” theory for pain control. This theory says that the stimulation of large nerve fibers may result in the blocking of pain transmission. The TENS message is carried to the spinal chord faster than a pain message and closes a hypothetical gate, inhibiting the pain message to the

brain. TENS may also work by stimulating the body to release endorphins, the body’s own pain killing substances.

Operating Instructions

1. **Battery Placement:** For the first use of this unit, insert the battery into the battery compartment. Ensure that the battery is placed correctly, by the positioning the positive (+) and negative (-) terminals properly.
2. **AC/DC Adapter:** If the optional mains adapter is to be used, insert the adapter pin at the end of the adapter lead, into the socket on the front of the unit marked “AC/DC”. There is no need to remove the battery while the adapter is in use, as the battery is automatically de-activated.
3. **Leadwire Connection:** Insert the pin ends of the leadwires into the self-adhesive electrodes.

4. **Electrodes:** If using self-adhesive electrodes, there is no need to use gel and tape. Please read the instructions provided with the electrodes. If using carbon rubber electrodes and gel, spread a small amount of the gel on each electrode and keep in place with permeable non-woven surgical adhesive tape.
5. **Before Beginning Stimulation:** Set the pulse rate dial to “1”. Turn the Output intensity (Amp) dials to the “0” position. Set the mode selector to switch “C”. Insert the leadwire plugs into the jack plug sockets at the bottom of the unit. You are now ready to commence stimulation. Position the electrodes to the skin areas directed by your medical advisor. For further instructions on placing electrodes, see below.
6. **Stimulation:** Slowly turn the Output intensity (Amp) dials clockwise until they click to the “ON” position and the power indicator light comes on. Continue to turn the dials slowly until a mild pricking sensation is felt.
7. **Pulse Rate:** By turning the pulse rate control dial slowly to the upper end of the pulse rate range (approx. 80Hz) you will feel a tingling sensation. This is based upon the Gate Control Theory. Effective pain relief may also be achieved at the lower end of the pulse rate range (approx. 2Hz). After setting your unit to this level, you will feel a sensation like a heart beat.
8. **Mode Selector Switch:** This selector switch enables you to choose the different types of modes available:

Continuous mode

For the Patient

Continuous Mode provides a steady uninterrupted (constant) signal. Set the Mode Selector Switch to “C” to obtain this mode. The Pulse Rate Dial should then be set to “1” and the Output Intensity (Amp) Dials to the “o” (off) position. To activate the unit, the Output Intensity Dials should then both be turned clockwise, until a comfortable level is reached. In doing this, you may activate both channels of this unit. The left Output Intensity (Amp) Dial controls the first channel, and the right Output Intensity (Amp) Dial controls the second channel. The Pulse Rate Dial should also be set to a comfortable level. A table summarizing the settings of this unit when used as a TENS machine is set out below for your assistance.

For the Physician

The Patient will obtain a continuous signal using this mode. Effective pain relief can be obtained whether the Pulse Rate Dial is set at either the higher or lower ends of its range, and the most suitable setting may depend on individual preferences of Patients and the treatment regime that you design for them. Please note that the Timer and Ramp dials have no function in this mode. The only dials that are used are the Output Intensity (Amp) Dials and the Pulse Rate Dial. A table summarizing the settings of this unit when used as a TENS machine is set out below for your assistance.

Burst mode

For the Patient

Burst Mode emits a series of pulses turning on and off in regular cycles. The unit can be set to Burst Mode, by setting the mode switch to “Cy”. Both of the Timer Control Dials are used to control how long the pulses stay on and how long they stay off. It is recommended that both Timer Control Dials are set at 1 second. This will provide pulses that turn on and off once per second. The left Timer Control Dial controls how long the pulses are on, and the right Timer Control Dial controls how long pulses are off. The number of pulses that are contained within each burst can also be controlled using the Pulse Rate Dial. It is possible to increase or decrease the number of pulses in each burst. The higher the setting, the more pulses there will be in each burst. Conversely, the lower the

setting, the less pulses there will be in each burst. This should be set to a comfortable level. This mode is activated when the Output Intensity (Amp) Dials are turned clockwise. Again, you should choose a setting that is comfortable. A table summarizing the settings of this unit when used as a TENS machine is set out below for your assistance.

For the Physician

Burst Mode emits a train of pulses in regular bursts. The above suggested settings for the Patient will provide pulses which turn on and off once per second. However, the Physician is always free to set his/her own treatment regime. The Physician will note that the Timer Control Dial is not utilized. A summarizing the settings of this unit when used as a TENS machine is set out below for your assistance.

Modulation mode

For the Patient

This mode provides a signal automatically decreases and then increases in regular cycles. The unit is set to modulation mode by setting the mode switch to “Cy”. The left Timer Control Dial should be set at 10 seconds and the Right Timer Control Dial should be set at 1 second (this can be varied up to 5 seconds if preferred). The Ramp Control Dial should be set at 8. Finally, to activate this mode, the Output Intensity (Amp) Dials should be set at a level which is comfortable. The signal emitted will modulate automatically (decrease and increase) in smooth, regular cycles. Modulation is very pleasant and soothing. A table summarizing the settings of this unit when used as a TENS machine is set out below for your assistance.

For the Physician

Modulation Mode emits a train of pulses in modulating cycles. The above suggested settings for the Patient should not be varied, except in relation to the Output Intensity Dials and the right Timer Control Dial, which can be varied between 1 and 5 according to preference. This mode uses the Timer Control, Ramp and Output Intensity (Amp) Dials and Mode Selector Switch. A table summarizing the settings of this unit when used as a TENS machine is set out below for your assistance.

Using the Body Clock Duo as a TENS Unit

Type Of Mode	Mode Selector Switch Setting	Other Dial Settings
Continuous	C	Pulse Rate Dial – Set to 1-150 as preferred Output Intensity Dials – Set to 1-5 as preferred Left Timer Control Dial – Not used Right Timer Control Dial – Not used Ramp Control Dial – Not used
Burst	Cy	Pulse Rate Dial – Set to 1-150 as preferred Output Intensity Dials – Set to 1-5 as preferred Left Timer Control Dial – Set to 1 Right Timer Control Dial – Set to 1 Ramp Control Dial – Not used
Modulation	Cy	Pulse Rate Dial – Set as required Output Intensity Dials – Set to 1-5 as preferred Left Timer Control Dial – Set to 10 Right Timer Control Dial – Set to 1-5 as preferred Ramp Control Dial – Set to 8

9. **Electrode Care:** If you stimulate for a number of hours, check that the self-adhesive electrodes have not dried out. If this is the case, they may be moistened with a drop of water. If using carbon rubber electrodes, check that you still have sufficient gel on them. If electrodes are allowed to dry out, this can cause minor skin irritation.
10. **After Stimulation:** When you have finished stimulating, turn the Output intensity (Amp) dials to the “o” position. Always ensure that the unit is switched off before removing the leads. Do not pull out the leadwires. Always remove the jack plugs from their sockets by holding the plugs between the forefinger and thumb.

Contraindications

1. Any electrode placement that applies current to the carotid sinus (neck) region.
2. Any use of TENS on patients who have a demand-type cardiac pacemaker.
3. Any electrode placement that causes current to flow transcranially (through the head).
4. The use of TENS whenever pain syndromes are undiagnosed, until etiology is established.

Warnings

1. The safety of TENS devices for use during pregnancy or birth has not been established.
2. TENS is not effective for pain of central origin (includes headache).
3. TENS devices should be used only under the continued supervision of a physician.

4. TENS devices have no curative value.
5. TENS is a symptomatic treatment and as such suppresses the sensation of pain which would otherwise serve as a protective mechanism.
6. The user must keep this device out of the reach of children.
7. Electronic monitoring equipment (such as ECG monitors and ECG alarms) may not operate properly when TENS stimulation is in use.
8. The Body Clock Duo is capable of delivering a pulse of 25 microcoulombs (μC). This stimulus may be sufficient to cause electrocution. Electrical current of this magnitude must not flow through the thorax as it may cause a cardiac arrhythmia.

Precautions

1. Isolated cases of skin irritation may occur at the site of electrode placement following long term application.
2. Effectiveness is highly dependent upon patient selection by a person qualified in the management of pain patients.

Adverse Reactions

Skin Irritation and electrode burns are potential adverse reactions.

Using the Body Clock Duo as an EMS Unit

What is EMS and How does it work?

EMS stands for Electronic Muscle Stimulation. This treatment consists of delivering low electrical impulses through your skin into the nerve fibers and muscles that lie below. Skin contact is made via electrodes placed on the body. The EMS unit will then stimulate the muscles to contract and relax.

Operating Instructions

1. **Battery Placement:** For the first use of this unit, insert the battery into the battery compartment. Ensure that the battery is placed correctly, by the positioning the positive (+) and negative (-) terminals properly.
2. **AC/DC Adapter:** If the optional mains adapter is to be used, insert the adapter pin at the end of the adapter lead, into the socket on the front of the unit marked “AC/DC”. There is no need to remove the battery while the adapter is in use, as the battery is automatically de-activated.
3. **Leadwire Connection:** Insert the pin ends of the leadwires into the self-adhesive electrodes.
4. **Electrodes:** If using self-adhesive electrodes, there is no need to use gel and tape. Please read the instructions provided with the electrodes. If using carbon rubber electrodes and gel, spread a small amount of the gel on each electrode and keep in place with permeable non-woven surgical adhesive tape.
5. **Before Beginning Stimulation:** Set the pulse rate dial to “1”. Turn the Output Intensity (Amp) Dials to the “0” position. Set the Mode Selector to switch “Cy” for Cycle Mode or

“Rp” for Reciprocal Mode – see explanations below. Insert the leadwire plugs into the jack plug sockets at the bottom of the unit. You are now ready to commence stimulation. Position the electrodes to the skin areas directed by your medical advisor. For further instructions on placing electrodes, see below.

6. Stimulation: Slowly turn the Output Intensity (Amp) Dials clockwise until they click to the “ON” position and the power indicator light comes on. Continue to turn the dials slowly until a mild pricking sensation is felt. Set the Pulse Rate Dial to 30Hz to begin. This can be increased to 50Hz for a stronger stimulation if required. Adjust for comfort.
7. Mode Selector Switch: This selector switch enables you to choose the different types of modes available:

Cycle mode ***For the Patient***

Cycle Mode provides the Patient with the facility to operate both channels simultaneously. This means that both channels will go on and off at the same time. The Patient will thus feel all electrode pads working together to provide contractions. A contraction will end and there will be a rest period before the next contraction is felt. This mode is selected by setting the Mode Selector Switch to “Cy”. The two Timer Control Dials control the duration of each contraction and the rest period in between each contraction respectively. Using the left Timer Control Dial, select the number of seconds you require a contraction to last. With the right Timer Control Dial select the number of seconds required as a rest period between the contractions. The Ramp Control Dial should also be adjusted to

allow you to choose how quickly or slowly the contraction reaches its maximum strength. The ramp time should always be set so it is less than the length of the entire contraction. An instant contraction would not be comfortable. Contractions should be gradual. By way of example, a contraction could be set to last for 5 seconds using the left Timer Control Dial. It would therefore not be appropriate to set the Ramp Control Dial to 6 seconds. A more appropriate setting would be 2. It is suggested that Patients seek the advice of their Physician for appropriate settings. Finally, to activate this mode, the Output Intensity (Amp) Dials should be set at a level, which is comfortable. A table summarizing the settings of this unit when used as an EMS machine is set out below for your assistance.

For the Physician

It is important that Physicians ensure that the Patient is aware of the importance of comparing the settings on the left Timer Control Dial and the Ramp Control Dial to ensure that they are not the same or indeed too similar. An instant contraction would not be comfortable for the Patient. The Pulse Rate Dial is adjustable and may be set to the Patient's comfort unless a particular frequency is being specified by the Physician. A table summarizing the settings of this unit when used as an EMS machine is set out below for your assistance.

Reciprocal mode

For the Patient

Reciprocal Mode enables the unit to function so that both of the channels operate alternately. When channel 1 is on, channel 2 is off. When channel 2 is on, channel 1 is off. This mode is selected by setting the Mode Select Switch to “Rp”. When using this mode, select the on time for channel 1 using the left Timer Control Dial and for channel 2 using the right Timer Control Dial. Thus, if you set the left Timer Control Dial to 5 seconds and the Right Timer Control Dial to 10 seconds for example, it would mean that Channel 1 would be on for 5 seconds and Channel 2 would be off for those 5 seconds. Channel 1 would then go off for 10 seconds, during which time, Channel 2 would operate for those same 10 seconds. Using this mode, you will feel the two channels operating two

separate contractions. Adjust the Ramp Control Dial to allow you to choose how quickly or slowly the contractions reach their maximum strength. This should always be set so it is less than the length of the contractions. An instant contraction would not be comfortable. Contractions should be gradual. By way of example, contractions could be set to last for 5 seconds on both Timer Control Dials. It would therefore not be appropriate to set the Ramp Control Dial to 6 seconds. A more appropriate setting would be 2. It is suggested that Patients seek the advice of their Physician for appropriate settings. Finally, to activate this mode, the Output Intensity (Amp) Dials should be set at a level which is comfortable. A table summarizing the settings of this unit when used as an EMS machine is set out below for your assistance.

For the Physician

It is important that Physicians ensure that the Patient is aware of the importance of comparing the settings on the Timer Control Dials and the Ramp Control Dial to ensure that they are not the same or indeed too similar. An instant contraction would not be comfortable for the Patient. The Pulse Rate Dial is adjustable and may be set to the Patient's comfort unless a particular frequency is being specified by the Physician. A table summarizing the settings of this unit when used as an EMS machines is set out below for your assistance.

Using the Body Clock Duo as an EMS Unit

Type Of Mode	Mode Selector Switch Setting	Other Dial Settings
Continuous	Not applicable	Not applicable
Cycle (both channels operate simultaneously)	Cy	Pulse Rate Dial – Set as required between 30-50Hz Output Intensity Dials – Set to 1-5 as preferred Left Timer Control Dial – Set to 1-20 as preferred Right Timer Control Dial – Set to 1-20 as preferred Ramp Control Dial – Set to 1-8 as preferred
Reciprocal (both channels operate alternately)	Rp	Pulse Rate Dial – Set as required between 30-50Hz Output Intensity Dials – Set to 1-5 as preferred Left Timer Control Dial – Set to 1-20 as preferred Right Timer Control Dial – Set to 1-20 as preferred Ramp Control Dial – Set to 1-8 as preferred

8. After Stimulation: When you have finished stimulating, turn the Output intensity (Amp) dials to the “o” position. Always ensure that the unit is switched off before removing the leads. Do not pull out the leadwires. Always remove the jack plugs from their sockets by holding the plugs between the forefinger and thumb.

Contraindication

Powered Muscle Stimulators should not be used on patients with cardiac demand pacemakers.

Warnings

1. The long-term effects of chronic electrical stimulation are unknown.
2. Stimulation should not be applied over the carotid sinus nerves, particularly in patients with a known sensitivity to the carotid sinus reflex.
3. Stimulation should not be applied over the neck or mouth. Severe spasm of the laryngeal and pharyngeal muscles may occur and the contractions may be strong enough to close the airway or cause difficulty in breathing.
4. Stimulation should not be applied transthoracically in that the introduction of electrical current in to the heart may cause cardiac arrhythmias.
5. Stimulation should not be applied transcerebrally.
6. Stimulation should not be applied over swollen, infected, or inflamed areas of skin eruptions, e.g. phlebitis, thrombophlebitis, varicose veins, etc.
7. Stimulation should not be applied over, or in proximity to, cancerous lesions.
8. Continuous stimulation for several seconds may cause muscle fatigue

and may only allow the device to be effective for spasm relief.

Precautions

1. Safety of powered muscle stimulators for use during pregnancy or birth has not been established.
2. Caution should be used for patients with suspected or diagnosed heart problems.
3. Caution should be used for patients with suspected or diagnosed epilepsy.
4. Caution should be used in the presence of the following:
 - (a) When there is a tendency to hemorrhage following acute trauma or fracture;
 - (b) Following recent surgical procedures when muscle contraction may disrupt the healing process;
 - (c) Over the menstruating or pregnant uterus; and
- (d) Over areas of the skin which lack normal sensation.
5. Some patients may experience skin irritation or hypersensitivity due to the electrical stimulation or electrical conductive medium. The irritation can usually be reduced by using an alternate conductive medium, or alternate electrode placement.
6. Electrode placement and stimulation settings should be based on the guidelines of the prescribing practitioner.
7. Powered muscle stimulators should be kept out of the reach of children.
8. Powered muscle stimulators should be used only with the leads and electrodes recommended for use by the manufacturer.
9. [FOR PORTABLE DEVICES ONLY]: Portable powered muscle stimulators should not be used while driving, operating machinery, or

during any activity in which involuntary muscle contractions may put the user at undue risk of injury.

Adverse Reactions

Skin Irritation and electrode burns beneath the electrodes have been reported with the use of powered muscle stimulators.

General Information

The accessories supplied with this Body Clock Duo unit are:

1. 2 packs of 4 50mm x 50mm self adhesive electrodes;
2. 1 9v PP3 battery;
3. 4 lead wires;
4. 2 bifurcated (dual) leadwires and
5. 1 manual.
6. 1 AC/DC Adapter

Electrodes

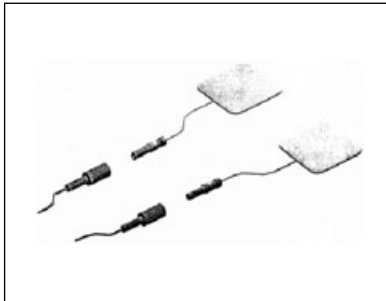
The Body Clock Duo is supplied with 2 x 4 (50mm x 50mm) self-adhesive electrodes. These are consumable items that can be re-ordered from Body Clock. If preferred, carbon rubber electrodes may be used with gel.

How to place electrodes:

- Store electrodes in packaging provided in a cool dry place.
- A key to successful use of the stimulator is finding the best placement for the electrodes. You may need to try several electrode locations before you find the best one to intercept your pain.
- Before placing the electrodes on your skin, gently wash the area with mild soap and water. Thoroughly rinse and dry the area before applying the electrodes.
- Trim excess body hair, which could

interfere with smooth electrode contact with the skin, but do not shave it.

- Do not place electrodes on cut, broken or irritated skin.
- Moisturizing cream may be applied after treatment, but not before.
- If you continue to stimulate for a number of hours, check that your electrodes are not dry. If they are allowed to dry out, this may cause



minor skin irritation. Your self-adhesive electrodes may be moistened slightly with a drop of water, if necessary.

- Never place or remove the electrodes, test or wet them while the system is turned on and connected to the electrodes. Failure to comply can result in a sudden unpleasant sensation on your fingertips.
- If you wish to double the number of electrodes being used from 4 to 8, connect the leads to the bifurcated leads.

Lead Wires

The lead wires are made of high quality shielded wiring. They are made from fine wire to be flexible and lightweight and if treated gently are designed for long life. The pin ends of the leadwires are inserted into the electrodes.

Battery Replacement

When replacing the battery, ensure that the power switch is turned off. Take out the PP3 battery and replace it with a new PP3 battery.

Maintenance and Care

Guidelines for optimum performance:

- Change the battery regularly.
- The unit must be switched off when changing the battery.
- The unit and leadwires may be wiped clean periodically using a very slightly dampened cloth. A mild soap may be used but DO NOT apply solvents.
- Never immerse the Body Clock Duo in water. Should the stimulator become wet, allow it dry thoroughly before using it again.
- Although the Body Clock Duo will provide years of reliable service, take reasonable care to avoid damaging

it. This includes removing the battery and storing the unit in its case, particularly if you are not going to be using it for an extended period of time.

General Precautions:

- Do not yank or twist the leadwires - treat them gently for long life. They are made from fine wire to be flexible and lightweight.
- Do not place it close to any source of excess heat.
- Do not operate your unit in the presence of flammable gases.
- Do not attempt to open the Body Clock Duo.
- Do not use battery or power sources other than those specified.
- Do not drop this unit onto a hard surface.

Checking system performance:

- If your unit does not appear to be operating properly, first change the battery. Replacing the battery can eliminate most operational problems.
- Check that the leadwire attachment is properly fixed to the unit.
- Check the electrodes are firmly attached to the pins of the leadwire.
- Make sure that the leadwire is not damaged or broken.

Device failures

- Please do not attempt to repair damaged devices yourself.
- In case of further inquiries, always state the model of your device (as indicated on the back of the unit).
- The Body Clock Duo should be repaired by qualified technical personnel.
- The Body Clock Duo is guaranteed for a period of 5 years against manufacturer's defects (excluding leadwires and electrodes). Note: the guarantee is null and void if any attempt is made to open the unit by unauthorized personnel.
- In the event of a fault please contact the supplier (address found on the invoice or delivery note) or Body Clock, 108 George Lane, South Woodford, E18 1AD.
Tel: +44 20 8532 9595
Fax: +44 20 8532 9551
email: sales@bodyclock.net

Technical Data

Output waveform:	Asymmetrical bi-phasic rectangular
Output:	Constant current
Output Intensity:	0-50mA peak (500 ohm load)
Output voltage:	25v (500 ohm load)
Pulse rate:	1-150Hz adjustable
Pulse width:	300 microseconds
Cycle mode:	On/Off both adjustable 1-20secs , 1 cycle (on/off time) auto-repeated
Continuous mode:	Continuous stimulation
Reciprocal modes:	Reciprocal output over 2 channels, both adjustable for 1-20secs
Ramp up:	Adjustable 0-8secs, effective to cycle/continuous/reciprocal modes
Power source:	9v PP3 battery or DC 9v through Body Clock AC/DC adapter* *approved by notified body for CE MDD
Battery life:	100 hours approx
Unit dimensions:	104x 89x 38mm (4 1/8" x 3 3/8" x 1 3/8")
Weight:	200g (inc battery)

Electrical specifications are nominal on 500ohms load and subject to variation due to normal product tolerances

Classification:

This unit is fully compliant with EEC Directive 93/42/EEC, and is classified as internally powered equipment, Type BF. It is intended for continuous operation

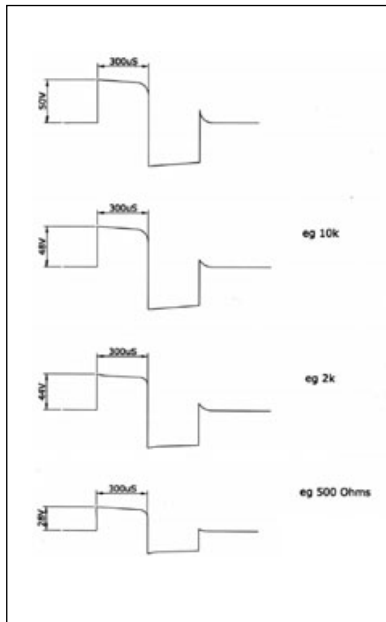
Explanation of symbols:



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 accompanying documents (i.e. this user manual).





Medical Devices Directive 93/42/EEC Annex V

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