



WHAT'S INCLUDED



QUICK START GUIDE

 Install the included batteries in the back compartment.



2. Insert the lead wires into the output 1 and output 2 slots.



3. Snap the pads onto the lead wires.



4. Remove the protective film from the pad.

Note: Please keep the protective film, this will be used to store the pads.



- 5. Use the chart below to apply the pads to the affected area.
- A Output A



Stiff Shoulder



Cervical Pain



Erector Spinalis



Lower Back



Shoulder Pain



Bicipital Tendonitis



Hip Neuralgia



Hip Pain



Sciatica



Slipped Disk





Elbow Pain



Knee Pain



Foot Pain



Stomach Pain





Calf Muscle



Carpal Tunnel Syndrome



Abdominal Pain



6. Turn the power switch to the "ON" position.



7. Select your preferred duration of your therapy. Click the time button to togale through the options are 5.10 and 15 minutes.



 Select your preferred intensity using the " + " and " - " buttons. Click to toggle through the options.



 Select your preferred Mode using the "MODE" button. Click to toggle between the 5 options.



10. To turn off your tens unit, slide the power switch to the "OFF" position. Your tens unit will also automatically shut off after your therapy session is complete.



WARNINGS 1

- Do not use this device if you have a cardiac pacemaker, implanted defibrillator, or other implanted metallic or electronic device.
- Do not use the device across or through your chest.
- Do not use this device over your neck.
- Do not use the device over, or in proximity to, these skin conditions: abnormal skin that is not intact, untidy, unhealthy, open wounds, rashes, swollen, red, infected, inflamed

areas, skin eruptions (e.g., phlebitis, thrombophlebitis, varicose veins), or cancerous lesions.

- The device should be operated, transported and stored at temperatures between 50° F and 104° F (10° C and 40° C), with relative humidity between 30% - 85%.
- Do not use the device when in the bath or shower, sleeping, driving, operating machinery or any activity in which electrical stimulation can put you at risk of injury.
- Using the device around electronic monitoring equipment (e.g., cardiac monitors, ECG alarms) may cause equipment malfunction.
- Do not use the device on children or let children handle the device.
- Do not use this device if you are pregnant, or suspect that you are pregnant, unless under the direction of your physician.
- Do not apply the device across your head.
- Do not disassemble or modify the device.
- Do not use this device if you have suspected or been diagnosed with epilepsy or heart disease, when suffering from a malignant tumor, or having a high fever.
- Consult your physician before using the device.
- Stop using the device and consult with your physician if you experience adverse reactions from use of this device.

TECHNICAL SPECIFICATIONS

• Intensity Levels: 16 levels

• 5 Modes

• Output Current: 30mA

• Power Voltage: 3V

• Pulse Frequency: 1-1000Hz

• Impulse width: 20 - 400 u s

• Timer Control: 5, 10 or 15 minutes

• Microcomputer controlled

• Batteries: AAAx2 Alkaline

TROUBLESHOOTING

| Fault Phenomenon | Reason | Solution |
|--|---|---|
| | Is the battery running out or placed inversely? | Replace new battery or put the battery correctly. |
| No display in LCD | Are there any foreign bodies in the battery holder? | Check and remove |
| | Is the contact between battery and battery spring piece bad? | Use suitable tool to scrape the battery spring piece clean. |
| The LCD displays | Is the two-core connecting line connected well? | Connect the two-core connecting line correctly. |
| normally, but there is no stimulation left, | Has the protective film on the electrode patch been torn off? | Tear off the protective film. |
| The stimulation is weak. | Are the electrode patches pasted closely to the skin? | Please paste the electrode patches closely to the skin. |
| | Are the electrode patches dirty? | Clean the electrode patches. |
| | Are the electrodes patches overlapping with each other? | Please separate the electrode patches and then paste. |

| | Is the treatment time too long? | The suitable time is 15 minutes. | |
|--|---|--|--|
| | Is the treatment time too high? | Turn down the intensity properly. | |
| There is a sense of piercing pain and the skin is red. | Experiencing an allergic reaction from the electrode patches? | Check whether you have any history of allergic reactions. If the reaction is mild, change the position of the electrode patches or shorten the treatment time. If the reaction is severe, stop treatment and seek medical attention. | |
| | Are the electrode patches dirty? | Clean the electrode patches | |
| | Are the electrode patches pasted closely to the skin? | Please paste the electrode patches closely to the skin. | |

TECHNICAL PARAMETERS AND SPECIFICATION

| Basic Unit Specifications | | | |
|-------------------------------|-------------------|---|--|
| | Host | 1O4mmx56mmx26mm | |
| Dimensions | Electrode patches | 83mmx59mmx6mm | |
| | Connecting line | 1.2m | |
| Host Weight | | 1.7oz | |
| Power Supply | | d.c.3V (AAA LRO3 battery * 2) 30mA | |
| Number of Chan | inels | 2 | |
| Number of Mode | es | 5 | |
| Output Intensity L | evel | 16 levels | |
| Safety Category | | BF type | |
| Service Life | | 3 years | |
| Output Specification | | | |
| Waveform and Shape | | Pulse symmetric, biphasic, square wave | |
| Maximum Output Voltage (±10%) | | 34V @ 500 Ω 48V @ 2K Ω 60V @ 10K Ω | |
| Maximum Output Current (±10%) | | 64mA @ 500 Ω 24mA @ 2K Ω 6mA @ 10K Ω | |
| Net Charge (per | pulse) | ΟμС @ 500 Ω | |
| Maximum Phase | Charge | 11.7μC @ 500 Ω | |
| Maximum Averag | ge Current | 7.4mA @ 500 Ω | |
| Maximum Current Density | | O.15mA/ cm ² @ 500 Ω | |
| Maximum Power Density | | O.OOO56W/ cm 2 @ 500 Ω | |
| Pulse Duration | | 2Ομs-22Ομs | |
| Frequency | | 1 Hz-12OHz | |
| Default Treatmer | nt Time | 15min | |

| Additional Features | |
|---------------------------|--|
| Environment for Operation | Temperature: +5°C to +40°C Humidity: 15% to 93%RH Barometric pressure: 700hPa to 1060hPa |
| Environment for Storage | Temperature: -25°C to +70°C Humidity: O to 93%RH Barometric pressure: 700hPa to 1060hPa |
| Environment for Transport | Temperature: -10°C to 40°C Humidity: 15% to 93%RH Barometric pressure: 700hPa to 1060hPa |

EMC STATEMENT

- Model RHB1O43 needs special precautions regarding EMC and need to be installed and put into service according to the EMC information provided in the accompanying document.
- 2. Portable and mobile RF communications equiptment can affect model RHB1O43.

WARNING:

- The use of accessories, transducers and cables other than those specified with the exception of transducers and cables sold by the manufacturer of the model RHB1O43 as replacement parts for the internal components, may result in increased emissions or decreased immunity of the model RHB1O43.
- Model RHB1O43 should not be used adjacent to or stacked with other equipment Guidance and Manufacturer's declaration can be seen in the attachment.

SYMBOLS

| Graphic Symbol | Meaning |
|----------------|---|
| LOT | Batch code |
| SN | Serial number |
| | Manufacturer |
| س_ | Date of manufacture |
| \triangle | Caution |
| ☆ | Type BF applied part |
| ((a)) | Low-frequency electromagnetic radiation |
| X | "WEEE (Waste Electrical and Electronic Equipment)". The waste products should be handled legally. |
| IP22 | Dustproof waterproof level. It can prevent solid object larger than 12mm from intruding, and when tilt for 15 degrees, it can still prevent water from intruding, so no harmful effect will be created. |
| (3) | Follow instructions for use |
| C€ | CE mark |

ATTACHMENT

Guidance and manufacturer's declaration - electromagnetic emissions

The model RHB1O43 is intended for use in the electromagnetic environment specified below. The customer or the user of the model RHB1O43 should assure that it is used in such an environment.

| Emissions | Compliance | Electromagnetic environment guidance |
|---------------------------|------------|--|
| RF emissions CISPR 11 | Group 1 | The model RHB1O43 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. |
| RF emissions CISPR 11B | Class B | |

| Harmonic emissions IEC 61000-3-2 | Not Applicable | The model RHB1O43 is suitable for use in all establishments, including domestic establishments and those directly connected |
|---|----------------|---|
| Voltage fluctuations/ flicker emissions IEC 61000-3-3 | Not Applicable | to the public low-voltage power supply network that supplies buildings used for domestic purposes. |

Guidance and manufacturer's declaration - electromagnetic immunity

The model RHB1O43 is intended for use in the electromagnetic environment specified below. The customer or the user of the model RHB1O43 should assure that it is used in such an environment.

| Immunity test | IEC 60601 | Compliance | Electromagnetic |
|---|---|-------------------|---|
| | test level | level | environment guidance |
| Electrostatic | ±8 kV contact | ±8 kV contact | Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%. |
| discharge (ESD) | ±2 kV, ±4 kV, | ±2 kV, ±4 kV, | |
| IEC 61000-4-2 | ±8 kV, ±15 kV air | ±8 kV, ±15 kV air | |
| Electrical fast transient/burst IEC 61000-4-4 | ±2 kV for power supply lines ±1 kV for Input/ output lines | Not applicable | Mains power quality should be that of a typical commercial or hospital environment. |
| Surge IEC 61000-4-5 | ±1 kV line to line ±2 kV line to earth | Not applicable | Main power quality should be that of a typical commercial or hospital environment. |

| Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11 | <5% U _T (>95% dip in U _T) for O.5 cycle 40% U _T (60% dip in U _T for 5 cycles 70% U _T (30% dip in U _T for 25 cycles <5% U _T (>95% dip in U _T) for 5 sec | Not applicable | Main power quality should be that of a typical commercial or hospital environment. If the user of the model RHB1043 requires continued operation during power mains interruptions, it is recommended that the model RHB1043 be powered from an uninterruptible power supply or a battery. | |
|---|--|----------------|---|--|
| NOTE: U _T | NOTE: U _r is the a.c. mains voltage prior to application of the test level | | | |
| Power frequency (5O/6O Hz) magnetic field IEC 61OOO-4-8 | | 3O A/m | Power frequency magnetic fields should | |

Guidance and manufacturer's declaration - electromagnetic immunity

The model RHB1O43 is intended for use in the electromagnetic environment specified below. The customer or the user of the model RHB1O43 should assure that it is used in such an environment.

| Immunity test | IEC 60601 | Compliance | Electromagnetic |
|---------------|--------------------------------|----------------|--|
| | test level | level | environment guidance |
| | 3 Vrms 15O kHz to 8O MHz | Not applicable | Portable and mobile RF communications equipment should be used no closer to any part |

| Conducted RF IEC 61000-4-6 | 6 Vrms in ISM bands | Not applicable | of the model RHB1O43, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. |
|----------------------------------|--|--|--|
| | 10 V/m 80 MHz to 2.7 GHz | 10 V/m 80 MHz to 2.7 GHz | Recommended separation distance |
| Radiated RF | 385 MHz- 5785 MHz Test | 385 MHz- 5785 MHz Test | d=[3,5/V ₁]xP ^{1/2} d=1.2xP ^{1/2} 80 MHz to 800MHz d=2.3xP ^{1/2} 800 MHz to 2.7 GHz |
| IEC 61000-4-3 | specifications for ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of IEC 60601-1-2:2014) | specifications for ENCLOSURE PORT IMMUNITY to RF wireless communication equipment (Refer to table 9 of IEC 60601-1-2:2014) | Where P is the maximum output power rating of the transmitter In watts (W) acording to the transmitter manufacturer and d Is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site surveys, should be less than the compliance level in each frequency ranges, Interference may occur in the vicinity of equipment marked with the following symbol: |

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the model RHB1O43 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocation the model RHB1O43.

b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distances between portable and mobile RF communications equipment and the model RHB1O43

The model RHB1O43 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the MODEL RHB1O43 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the model RHB1O43 as recommended below, according to the maximum output power of the communications equipment.

| Rated maximum output power of the transmitter | Separation distance according to frequency of transmitter m | | | |
|---|---|---|---|--|
| or the transmitter W | 150kHz to 80MHz d=1.2xP ^{1/2} | 80kHz to 800MHz d=1.2xP ^{1/2} | 80kHz to 2,5GHz d=2.3xP ^{1/2} | |
| 0.01 | O.12 | O.12 | O.23 | |
| 0.1 | O.38 | O.38 | O.73 | |
| 1 | 1.2 | 1.2 | 2.3 | |
| 10 | 3.8 | 3.8 | 7.3 | |
| 100 | 12 | 12 | 23 | |

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies $\,$

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection

MAINTENANCE AND STORAGE

Cleaning and maintenance:

- When the host is dirty, use a dry soft cloth or dry towel to wipe it.
- Keep the surface of electrode patches clean, avoid dust, oil or any substances that will lower the viscidity of the electrode patches. Use water when the surface gets dirty and dry it before use.
- Please do not open or disassemble the unit. If the unit is not working properly, please give us a call.
- Please take out the batteries if the unit is not to be used for a long time.

Storage:

- 1. Please keep the unit out of reach of children.
- Do not store the unit in places where it will be exposed to direct sunlight, high temperature or moisture.
- 3. Please store the unit in dry and ventilated places.
- Do not disassemble, repair or reform the unit, otherwise it might cause accident or malfunction.