Instructions Wireless Convulsion Monitor - (AMM)

REQUENCY PRECISION airlert®

www.pressuremat.com

A pressure sensitive mat to alert to seizure

The movement monitor uses an Airlert™ bed pressure mat to detect excessive movement of an individual whilst in bed.

What's Inside

Your wireless convulsion monitor consists of a rolled up full length foam mat and a battery powered control box. These plug together using the black air tube. It is supplied with a matched pager.



How it works

The air filled foam mat is placed underneath the mattress and connects to the control box. When excessive movements are detected (such as those typical of the type of seizures that cause the whole body to shake), the rapid change in air pressure in the foam mat is detected by the control box. The red and blue light will flash on the control box to indicate that the sensor has been triggered and a wireless signal will be sent to any linked pager(s).

Installation Instructions

1. Unroll the bed mat

Unroll the bed mat. When newly unrolled allow the mat to self inflate by leaving it on the floor for at least 20 minutes. It can then be inserted into position underneath the bed mattress.

2. Insert the batteries

Remove the control box from the rubber case. The battery compartment is located on the back of the unit. Open the battery compartment by sliding the cover and insert 2 x Alkaline AA batteries if not already fitted.



3. Connect the bed mat

Connect the air tube to the mat and to the control box by twisting the end firmly over the proud airpipe. Take care to ensure the tube is not bent or crushed.

The 'extra sensor' jack soctet will not normally be needed but it can be used to connect an additional sensor such as a floor pressure mat. Please contact us for more information



4. Set the sensitivity using the side control switch

The sensor is triggered by repetitive movements.
Slow is the most sensitive setting. It means that the sensor will pick up slower shaking movements.
Rapid is less sensitive, because the sensor will only pick up faster shaking movements.

5. Fine tune the sensitivity

Adjust the dial to fine tune the sensitivity. For most people, this will be somewhere between the 3 o-clock and 9 o-clock positions.

When setting the sensitivity, the aim is to allow the person to move normally while they are in bed without triggering the sensor, while also ensuring that excessive movements typical of a seizure are detected.



It is useful to fine tune the sensitivity with a person in the bed.

Ask them to roll over or reposition themselves and ensure that this doesn't trigger the sensor. Then ask them to simulate the movements associated with a seizure and check that the sensor triggers.

6. Position the control box

The control box is supplied with a blue protective rubber case and straps. The straps are threaded through the back of the rubber case and can be attached to any part of the bed by feeding them through and pulling them until tight.

Alternatively, the control box can be placed on the floor underneath the bed.

We can supply alternative mounting solutions including:

- Self adhesive velcro pads which can be used to attach the control box to any flat surface.
- A wall mounting plate which can be used to attach the rubber case to a wall.

Please contact us for more information.



FREQUENCY PRECISION Instructions

Wireless Convulsion monitor- (AMM)

How to reset the sensitivity

Move the control switch to the off position, then begin by moving it to slow. With a person on the bed, fine tune the sensitivity by gradually turning down the dial from a fully clockwise position. The sensor may trigger multiple times while you do this. Ask the person to move around on the bed and gradually turn down the dial until the sensor stops triggering. It is likely that the dial will end up somewhere between the 3 o-clock and the 9 o-clock positions. Finally, ask the person to make movements typical of a seizure and check that the sensor triggers. If you find that the sensor is still too sensitive, repeat this process with the switch in the rapid position.

Troubleshooting

Check the connections

It sounds simple but it is important to check that the black air tube is connected to the mat at one end and the control box at the other end. The black air tube can be cut to any required length. Also check that the cable is connected to the nurse call system.

When mats are new they can take a while to inflate fully. If your mat is not working correctly, try letting it inflate whilst not under a mattress for a good few hours. Used mats that are not functioning correctly can also benefit from this treatment.

It can also help to do the following:

- 1. Allow the mat to inflate unplugged on the floor,
- 2. Plug the black air tube into the mat and control box,
- 3. Finally, place the mat under the mattress (ensuring it remains plugged in to keep the air in).

Mat position

Generally the mat is placed underneath the full length of a single mattress. For use with double beds the mat should be positioned under the side most commonly used by the individual.

Low Battery

Check that the battery in the control box is not flat. Try replacing the battery with 2 x new AA Alkaline batteries. We recommend using high quality Duracell batteries. The red light on the control box will become less bright when the battery needs changing.

Check that the switch on the control box has not accidentally been set to Off.

Other Information

Control Box Coding

The control box will be supplied already linked to the pager. If you have purchased multiple Wireless Convulsion Sensor & Bleeper Pager sets, each set will need to be placed on a different code, to ensure that only one wireless control box is linked to its corresponding pager. Please contact us for more information. We will use a sticker of the same colour on the control box and it's corresponding pager to indicate that they have been matched. Please note that a pager will only be compatible with a control box that has the same coloured sticker.

The mat contains no batteries or electronics since it is air operated. It can therefore be cleaned with standard cleaning products or alcohol. We suggest wiping with a disposable cloth using alcohol solvent, disinfectant or with warm soapy water. The black air tube can be removed at both ends and wiped as above or as a low cost item these may be replaced easily.

The control box and pager incorporate electronic components and should not be submerged but may be wiped with an alcohol solvent, detergent or mild chlorine solution as required.

This product is not a medical device and is intended to be used as an assistive care product.

Daily checks:

- 1. Press the yellow test button and ensure that the pager activates. The yellow test button will only test that the batteries are working.
- 2. Visually inspect the black air tube to ensure that it is connected securely to the bed mat and to the control box. Check that the tube is not externally compressed anywhere along its length.

Range tests:

When the system is installed or moved, the range should be tested by two people. One person should take the pager to the furthest point where the caregiver might be. The second person should press the yellow test button. If the pager does not activate, it is likely that it is outside its range. Please contact us to discuss possible solutions, including the use of a wireless range extender.

If the unit has been dropped or is worn by a person involved in an accident, it should be tested again.

DO NOT subject this equipment to: Mechanical shock, Excessive humidity, Extremes of temperatures, Corrosive Liquids.

This equipment is designed for indoor use and is not water resistant. It must not be used in classified hazardous areas including areas containing explosive or flammable vapours.

Consult your local product dealer for further information.

Specifications:

Wireless control box Power supply

Dimentions:

Bed mat

Weiaht

2x AA Alkaline Battery (Removable, not rechargeable)

433.92MHz Frequency POCSAG Code format

117mm x 78mm 24mm

1980mm x 670mm x 33mm

R&TTE Directive 1999/5/EC

EMC Directive (89/336/EEC) EN 301 489 • 1 V 1. 4. 1 Low Voltage Directive (7323/EEC) EN60950: 2000

ETSI EN 300 220-1 V2 (2006-04)

Liability Frequency Precision does not accept any liability for any damage or injury, howsoever caused as a result of misuse of this equipment. It is the responsibility of the user to ensure that the equipment is operated in the manner for which it was intended and that it is the correct item of equipment for the required task All systems can fail and it is the responsibility of the user to carry out regular tests and to determine the suitability of this equipment for any application

Repair and replacement Frequency Precision will refund payment for any unit returned within 30 days of purchase as unsuitable for the intended purpose. Undamaged units will be repaired free of charge within the first 12 months

Literature Frequency Precision Ltd operates a policy of continual improvement and therefore reserves the right to modify and change any specification without prior notice. While every possible care has been taken in the preparation of its manual, we do not accept any liability for the technical or typographical errors or omissions contained herein, nor for incidental or consequential damages arising from the use of the material.

Disposal At the end of the working life of the product it must not be disposed of with household waste but returned to Frequency Precisision Ltd. for disposal at a collection point for the recycling of electrical equipment

call 01837 810 590