

# Epilepsy Sensor

## What is the Epilepsy Sensor?



The Emfit epileptic seizure alarm is a sensor that monitors a person with epilepsy while they sleep. Patented sensor technology detects all of a person's movement in bed and is able to differentiate normal movements from epileptic seizures.

The epileptic seizure alarm consists of a sensor, a control unit and a radio transmitter. The bed sensor is extremely thin and contains no embedded wires or switches. An alarm can be raised through a local audible alarm if there is a carer nearby.

### How does it work?

The epilepsy sensor monitors a person's movements including respiration and heartbeat. It is able to separate normal movements from epileptic seizure symptoms such as tonic-clonic shakings or similar continued movement.

The sensor also detects hyperventilation and partial convulsions as seizures. The alarm triggers if the person has abnormal movements longer than the pre-set delay. The delay can be set between 10-20 seconds.

### Why is it needed?

The sensor is used to alert an onsite carer when a person begins to seize during sleep and requires immediate assistance.

Seizing during sleep can be dangerous as it places a person at risk of:

- inhaling vomit or other fluids if not rolled onto their side
- coming into contact with furniture or objects surrounding the bed
- falling from their bed

The sensor reduces the need for carers to make physical checks, promoting independence and dignity for the user.

### Who is it for?

This solution may benefit people living with epilepsy to support and complement professional care where individuals are concerned about having seizures overnight.

Epilepsy can develop at any age; however, it is most commonly diagnosed before the age of 20 and after the age of 60. The epilepsy sensor does not have weight restrictions, making it a suitable solution for children as well as adults.

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## Features and benefits

Epilepsy sensor monitors more than just vibration – reduces false alerts

Sensitivity adjustment – adjusts to the individual's requirements

Unobtrusive – minimises user disruption

Plug and play registration – program with ease

Automatic radio trigger low battery warning – ensure optimum operation

## Technical details

### Emfit control unit (D-1090-2G)

Weight	110g
Dimensions	127 x 96 x 94 (LxWxD)
Power source	5 V DC
Input/output connectors	Power, sensor and auxiliary
Status indicators	Green, blue and red LEDs
Mounting	Wall bracket included
Alarm delay	Faster movements thresholds delay adjustable 10, 13, 16 or 20 seconds

### Emfit sensor (L – 4060SL)

Weight	110g
Dimensions	580 x 400 x 0.4mm (LxWxD)
Connecting cable length	3m
User weight limit	None

The Emfit epileptic seizure alarm is compatible with the following products:

**Bellman 433 Telephone Transmitter & 1 x 9Batt (excludes tel cord)**

**Bellman 433 Portable Receiver, including batteries - C**

This product is manufactured by Emfit Oy (Business ID 0813747-4) in Finland. The product is distributed in Australia by Tunstall Healthcare.

Our policy of continual development means that product specifications and appearance may change without notice. Tunstall does not accept any responsibility for any errors and omissions contained within this document.

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