

product data



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.

It consists of a sensor, a control unit and a Tunstall radio transmitter. The bed sensor is extremely thin and contains no embedded wires or switches. An alarm can be raised on either a Lifeline home unit or via Telecare Overlay. A local audible alarm can also be emitted if there is a carer nearby.



How does it work?

The alarm functions of the Emfit sensor are based on monitoring the 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 preset delay. The delay can be set between 7-20 seconds.

Why is it needed?

Epilepsy is the tendency to have recurrent seizures. There are about 40 different types of seizure and a person may have more than one type. Epilepsy can develop at any age; however, it is most commonly diagnosed before the age of 20 and after the age of 60. Only 52% of people with epilepsy in the UK are seizure free. With optimal treatment it is estimated that this figure will raise to 70%. One of the triggers for a seizure is medication non compliance.

One in 131 people in the UK has epilepsy - around 456,000 - making it the second most common neurological condition after migraine

This solution may benefit people with epilepsy to support and compliment professional care where individuals are concerned about having seizures over night. The Emfit sensor does not have weight restrictions, so it is suitable for children as well as adults.

All the reassurance you need

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Features and benefits

- **Emfit sensor monitors more than just vibration** - reduced numbers of false calls
Sensitivity adjustment - enables the adjustment of the sensor to the individual's requirements
Unobtrusive - minimises user disruption
- **Plug and play registration** - eases programming
Transmission to Class One receiver - ensuring alarms are reliably received
- **Operates on the dedicated social alarm frequency** - for reliable future proof operation
Compatible with Lifeline home units and other Tunstall telecare enabled systems
- **Automatic radio trigger low battery warning** - ensures optimum operation

Technical details

Emfit control unit (D-1090-2G)

Weight:	110g
Dimensions:	127 x 96 x 34mm (LxWxD)
Power source:	Mains adapter
Operating voltage:	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 (L4060SL)

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

Tunstall radio transmitter:

Weight:	25g
Dimensions:	75 x 51 x 25mm (LxWxD) 3V DC (1x3V Lithium cell)
Power supply:	5 years or 20,000 operations under normal conditions
Battery life:	
Radio frequency:	869.2125MHz. Compliant with dedicated social alarm frequency
Radio range:	Up to 50m (typical)

Standards:

Emfit Epileptic Seizure Alarm (device model D-1090-2G and bed sensor model L-4060SL) complies with the essential requirements of EMC directive 2004/108/EC, CE mark directive 93/68/EEC and Medical Device Directive 93/42/EC and carries the CE marking accordingly.' Emfit Ltd.

EMC:	ETS 300683:1997, EN 650130-4:1995
Safety:	EN 60950:2000
Radio:	EN 300 220-3 V1.1.1 (09-2000)
Tunstall radio transmitter:	EN 300 220-3 V1.1.1 (09-2000)
CE:	Compliant

Part Number: 67005/59 Complete sensor pack comprising Emfit bed sensor, controller, operation and installation instructions and Tunstall radio transmitter

Part Number: 41000/04 Replacement Emfit bed sensor for Control Unit D1090
41000/06 Replacement Emfit bed sensor for Control Unit D1090-2G

For complete Emfit epileptic seizure alarm terms and conditions please see Emfit Operation and Installation Instructions at www.tunstall.co.uk/login

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www.emergencyresponse.ie

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