Tunstall

Epilepsy Sensor & radio transmitter

What is it?

Epilepsy sensors are used to monitor people with epilepsy while they sleep. Patented sensor technology detects a person's movement in bed and is able to differentiate normal movements from epileptic seizures.
An alarm can be raised using either a Lifeline home unit, Communicall or Care Assist.

Defined as the tendency to have recurrent seizures, there are about 40 different types of epilepsy and it is most commonly diagnosed in children and people over 65.

How does it work?

An epilepsy sensor enables tonic clonic seizures to be detected the moment they occur, ensuring carers can respond quickly if they are needed, but otherwise do not disturb the user's sleep.

Epilepsy sensors can be used in individual homes or assisted living environments. They are portable and simple to use, supporting carers and protecting users.

The sensor is suitable for use with children as well as adults.

Who is it for?

This is a solution for individuals at home and in grouped housing developments.
In many cases a carer for someone with epilepsy will undertake regular checks throughout the night, which is labour intensive for paid carers and means broken sleep for informal carers. The person affected may also find these checks intrusive and undignified.
An epilepsy sensor will automatically raise an alert with a carer if it detects a seizure, enabling appropriate care be provided quickly, without the need for manual checks.

Features

- Patented sensor technology - reduces number of false calls

- Sensitivity adjustment - enables the adjustment of the sensor to the individual's requirements

- Transmission to Class One receiver ensuring alarms are reliably received

- Automatic radio trigger low battery warning - ensures optimum operation

Benefits

- Unobtrusive - minimises user disruption

- Plug and play registration - eases programming

- Compatible with Lifeline home units and other Tunstall telecare enabled systems

- Operates on the dedicated social alarm frequency - for reliable future proof operation

Abilia epileptic seizure alarm

The Abilia sensor also monitors the user's vital signs including heart rate to detect presence within the bed. The sensor is extremely thin and contains no embedded wires or switches. It should be installed under a foam mattress or mattress cover (if using a sprung mattress), and positioned below the chest. The alarm triggers if it senses movements associated with a seizure for longer than the pre-set delay, which can be set to between 10 and 20 seconds.

Technical

Abilia control unit (D-1090-2G)

Dimensions:
127 x 96 x 34mm (LxWxD)

Weight:
110g

Power source:
Mains adapter

Operating voltage:
5 V DC

Input/output connectors:
Power, sensor and auxiliary

Mounting:
Wall bracket clip included

Alarm delay:
Faster movements thresholds delay adjustable: 10, 13, 16 or 20 seconds

Abilia sensor (L-4060SL)

Weight:
110g

Dimensions:
580 x 400 x 0.4mm (LxWxD)

Connecting cable length:
3m

User weight limit:
None

Part numbers

Abilia bed sensor, controller, operation and installation instructions	69005/11
Epilepsy radio transmitter and cable	69005/09

The epilepsy sensor package

Two part numbers must be ordered to operate the epilepsy sensor package:
The Abilia bed sensor and controller
The epilepsy radio transmaitter which includes the cable to connect to the Abilia unit.

The transmitter is compatible with the Lifeline Smart Hub, Vi, Vi+ and other Tunstall telecare systems.

Standards
Abilia bed sensor & controller

'Abilia Epileptic Seizure Alarm (device model D-1090-2G and bed sensor model L-4060SL) complies with the essential requirements of the Medical Device Directive 93/42/EEC and carries the CE marking accordingly.' Abilia Ltd.

Epilepsy radio transmitter:

EMC & Social alarm:
EN 55032, EN 301 489-3, EN 50130-4, EN 50134-2

Radio:
EN 300 220-3-1

Safety:
EN 60950-1

Design, manufacture, installation and service:
ISO 9001:2008

Operating temp range:
0°C to 45°C (storage -10°C to 50°C)

Why Tunstall?

We focus on using the latest digital and mobile technology to enable people to feel safe, secure and independent, giving them the freedom to live the life they choose. Our products combine secure digital connectivity and mobile platforms.

We help you provide...

- Intelligent, unobtrusive, person-centred care.
- Personalised, proactive and predictive services to improve quality of life.
- Integrated health, housing and social care.