

# Enuresis sensor

## What is an enuresis sensor?

Enuresis is estimated to affect 15% of people over the age of 65 years, and is a problem which can cause considerable discomfort especially at night. In many cases a carer 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 enuresis sensor will automatically raise an alert with a carer if it detects moisture, enabling appropriate care be provided quickly, without the need for manual checks

## How does it work?

An enuresis sensor provides a discreet and efficient means to detect instances of moisture in the bed the moment they occur, ensuring carers can respond quickly if they are needed, but otherwise do not disturb the user's sleep.

There are three types of sensor available depending on user needs:



### Wipe clean enuresis sensor

This consists of a thin, waterproof and durable plastic sensor mat, which is positioned between the mattress and top sheet of a bed. It can be quickly wiped clean and replaced into the user's bed.



### Cotton enuresis sensor

These cotton sheets are placed under the bedsheet and can be machine washed up to 50 times at normal temperatures, once the connecting cables are removed.



### Absorbent enuresis sensor

This 'intelligent' absorbent sheet with breathable, waterproof back supports people with mild nocturnal incontinence. A small amount of fluid (300ml) is absorbed without disturbing the user, while a major



episode (500ml) will trigger the alarm. The sheet can be machine washed up to 50 times at 60°C and line-dried, or up to 30 times at 85°C and tumble dried.

Whichever sensor is used, once it detects moisture it sends a signal to a small interface module, which can be positioned under a bed, to provide wireless communication with a Lifeline home unit or Telecare Overlay system to enable care to be delivered quickly.

## Who is it for?

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

## Why is it needed?

Enuresis can result in skin damage as a result of prolonged exposure to urine. Detecting and responding to instances of enuresis quickly helps to maintain the integrity of the skin, preventing breakdown, maceration, dermatitis and infection.

## Features and benefits

- **Discreet solution** - reduces user intrusion and the need for manual detection
- **Plug & Play registration** - provides simple registration with Lifeline home unit and Telecare Overlay to allow rapid deployment
- **Durable sensor mats** - can be re-used for cost effective implementation
- **Wireless communication** - raises alerts without the need for unsightly wires using the 869MHz European Social Alarm Frequency for reliable operation

## Technical details

### Wipe clean enuresis mat

Dimensions: 20 x 540 x 1mm (WxHxD)

Weight: 0.8 Kg

#### Control Unit:

Dimensions:

95 x 160 x 35mm (WxHxD)

Radio frequency:

869.2125 MHz VHF integral transmitter

Radio range: Up to 50m (Typical)

Power: 4 x AA batteries (supplied)

Battery life: 2 years

Battery disposal:

Disposal in accordance with current legislation

Environment:

Operating temp range: -10°C to +55°C

Environmental humidity: 95% maximum

Part Number:

Enuresis Sensor Kit (including Control

Unit and Sensor) 41005/21

Replacement Enuresis Sensor S2209050

### Standards

EMC:

EN550022:1998, ETSI EN301-489-1:

(2000-08) Class 1

Safety: EN60950:2000

Radio receiver: ETSI EN300 220-3 Class 1

Social alarm: EN50130-4

Design, Manufacture, Installation

and Service: ISO9001: 2000

### Cotton enuresis sensor

Weight: 0.25Kg

Dimensions:

60 x 160 x 1mm (WxHxD) with 60 x 90mm sensing area

Part Number: Cotton mat: S9001003

Part Number:

Universal sensor lead: S9001006

### Absorbent enuresis sensor

Weight: 0.45Kg

Dimensions:

90 x 60 x 1mm (WxHxD)

Capacity: 1.6l

Part Number:

Cotton mat: S9001004

Part Number:

Universal sensor lead: S9001006

### Universal sensor (required for cotton and absorbent enuresis sensors):

Weight: 70g

Dimensions:

50 x 74 x 25mm (W x H x D)

Radio frequency: 869.2125MHz

Battery life: 5 years depending on usage

Battery disposal:

In accordance with current legislation

Part Number:

Universal sensor 41005/30

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

© 2014 Tunstall Group Ltd.

® TUNSTALL is a registered trademark.

Tunstall Healthcare (UK) Ltd,  
Whitley Lodge, Whitley Bridge,  
Yorkshire DN14 0HR

Tel: 01977 661234

Fax: 01977 662570

Email: [enquiries@tunstall.com](mailto:enquiries@tunstall.com)

[tunstall.com](http://tunstall.com)

 @TunstallHealth



**Tunstall**