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

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)
Battery frequency: 869.2125MHz
Battery life: 5 years depending on usage
Battery disposal: In accordance with current legislation
Part Number: Universal sensor 41005/30

Standards
EMC: EN55022:1998, ETSI EN301-489-1: (2000-08) Class 1
Safety: EN60950:2000
Radio receiver: ETSI EN300 220-3 Class 1
Social alarm: EN50130-4