



# Universal Sensor

## What is it?

The Tunstall universal sensor connects multiple hard-wired devices to a Lifeline home unit and other Tunstall telecare enabled systems. It uses radio signals to enable wireless alarm calls to be raised.

## How does it work?

The universal sensor works as an interface between hard wired devices and Tunstall telecare enabled systems.

The keypad and LCD interface allow the installer to easily set the sensor to send a message to the home unit identifying which type of device it is linked to. When the attached device is triggered the universal sensor sends the appropriate message, providing the operator at the monitoring centre with sufficient information to respond accordingly.

## Features

- Enables wired devices and other equipment to raise wireless alarm calls by sending appropriate radio messages to the home unit
- Incorporates a keypad with four buttons and LCD interface so the user can navigate through the menu to easily select options
- Compatible with the Lifeline Smart Hub, Vi, Vi+ and GSM and Tunstall Group Living systems
- 5 year battery life (replaceable)
- Incorporates an RJ11, 3.5mm stereo jack and magnetic reed switch which allows a range of peripherals to be connected to the universal sensor
- Flexible - supports both normally open and normally closed contacts

## Benefits

- **Increases capacity for independent living** by adding sensors around the home
- **Simple way to connect multiple sensors** to a telecare enabled systems
- **Saves time and money** on installation and additional wiring
- **Long battery life** reduces the need for maintenance visits
- **Plug and play**, so the installer can easily select the appropriate sensor type sent to the monitoring centre by using the keypad and the LCD interface

## Modes of function

### 1. Alarms from hard wired devices

The Universal Sensor is capable of connecting to a wide range of third party products. It allows allow hard wired devices to be connected via radio to Tunstall systems through one of 2 inputs:

#### RJ11\*:

**Enuresis** - connects to an enuresis mat or sheet. When moisture is detected the alarm is triggered.

**Epilepsy** - connects to an epilepsy sensor. When movement associated with a seizure is detected for longer than the pre-set time is detected, the alarm is triggered

**Smoke Detector** - connects to third-party products. If smoke is detected the sensor sends an alarm call

**CO Detector** - connects to third-party products. If CO is detected the sensor sends an alarm call.

**Gas Detector** - connects to a gas detector unit, Tunstall's or third-party. If natural gas is detected the sensor sends an alarm call

**Pendant** - connect third-party alarm triggers to communicate with Tunstall Hubs

#### 3.5mm Jack\*:

This can be configured to send pendant radio messages from third party product such as a Jelly bean button or a Grasp switch.

### 2. Stand-alone products

**Bed Occupancy sensor** - Designed to work with appropriate bed / chair mats. The unit generates an alarm call if any of the pre-set limits are reached for the Not in bed, not out of bed settings. Includes Deactivation mode for up to 1 hour.

**Door Guard sensor** - Pre-set times to monitor the door opening. If the door is opened within these times the alarm is triggered. Deactivate monitoring mode provides pause functionality for up to an hour to allow access through the door without triggering an alarm.

### 3. Events

Allows simple radio messages to be sent in the event of the sensor being triggered using the following modes:

**Virtual Bed sensor** - The alarms are managed by the Tunstall Hub when operating its Virtual sensor capability. Provides in/out of bed alerts for activity monitoring.

**Door Contact sensor** - Door usage data for open and close events are sent to enable wellbeing monitoring.

## The Universal Sensor package

The package includes one 869 MHz universal sensor, two door contacts, wall fixings and an RJ11 Cable.

## Specification

### Technical

#### Dimensions:

50 x 74 x 25mm (WxHxD)

#### Weight:

70g

#### Radio frequency:

European 869 MHz social alarm frequency

#### Power supply:

3.6V AA EVE ER14505V Battery

#### Battery life:

5 years depending on usage

### Standards

#### EMC:

EN 55032, EN 301 489-3, EN 301 489-3, 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)

### Part numbers

#### Universal sensor

61005/30

\*Responsibility for suitability and relevant standards compliance lies with the service provider.



For more information please visit:

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