Epilepsy Sensor Transmitter

Installation Guide

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1. Features and Introduction
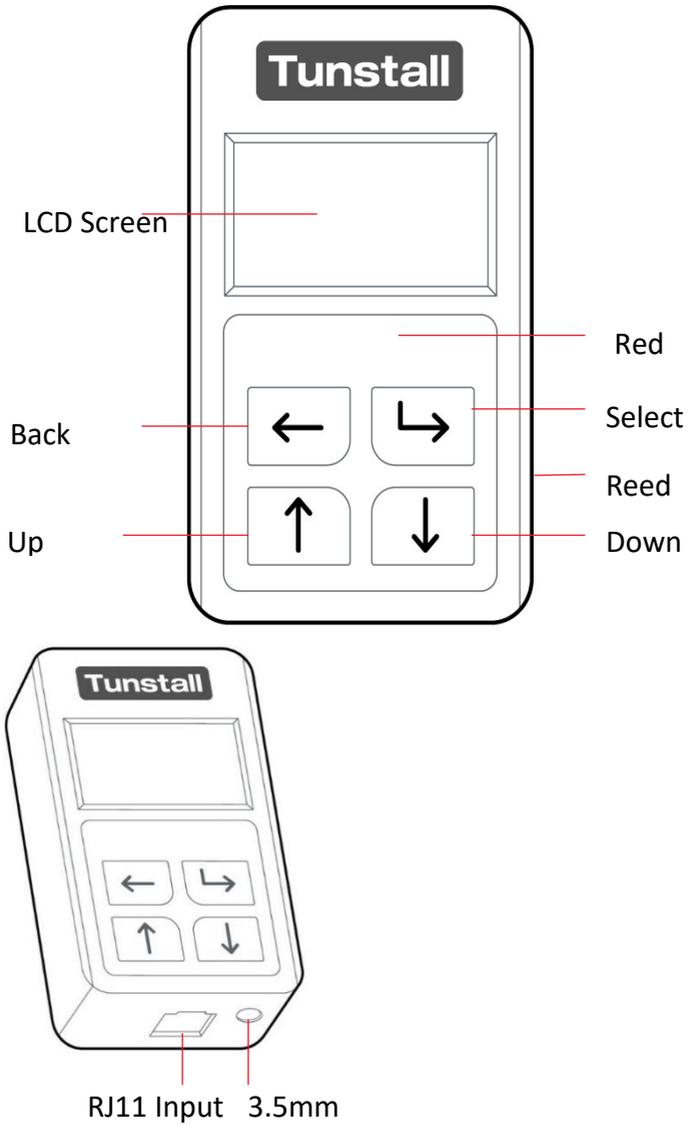
Your Epilepsy Sensor Transmitter

The Epilepsy Sensor Transmitter works as a radio interface between the Abilia (previously known as Em-fit) Epilepsy Sensor and Tunstall telecare enabled systems.

The transmitter arrives pre-programed as an epilepsy sensor with the language configurable using the built-in buttons and the LCD screen.

When the Epilepsy Sensor transmitter is connected to the sensor and activated, it sends the appropriate message, providing the operator at the monitoring centre with sufficient information to respond accordingly.

The responsibility for suitability and relevant standards compliance of devices connected to the Epilepsy Sensor Transmitter lies with the Service Provider.

Epilepsy Sensor Transmitter Illustration

LCD Screen

Red

Back

Select

Reed

Up

Down

RJ11 Input   3.5mm

2. Getting Started

What's in the box?

1	Epilepsy Sensor Transmitter

1   Epilepsy Sensor Transmitter

2   Velcro Pads

1   RJ11 Cable for connection to an epilepsy sensor to connect to the Abilia sensor

1   Technical Insert

How to install

The Epilepsy Sensor Transmitter should be installed in a clean, dry environment and should be mounted away from metallic surfaces for optimum radio performance.

The Epilepsy Sensor Transmitter can be fastened to the wall etc. by a variety of methods – integral keyhole slots, sticky pads, Velcro etc. The installer should determine the most appropriate method.

Connecting the cable

Within the box for the Epilepsy Sensor Transmitter you will find a cable. The cable is used to connect the Epilepsy Sensor Transmitter to the Abilia Epilepsy Sensor.
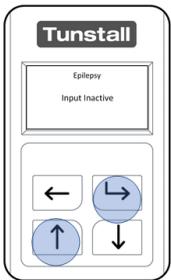
Abilia: The Abilia cable has a RJ11 and a RJ45 connector. The RJ11 connector goes into RJ11 Socket of the Radio Transmitter (see diagram on p4) and the RJ45 goes into X2 port of the Abilia controller.

Unlocking the Epilepsy Sensor Transmitter

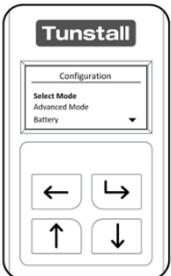To unlock the Epilepsy Sensor Transmitter:
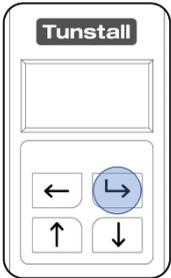
Press the "Select Button" once so the display is showing.

Then press and hold the "Up Button" and the ''Select Button'' until 'Change Settings' appears on the display.
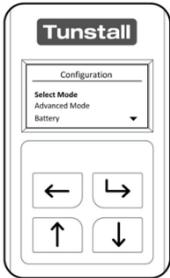
Press the "Select Button" to confirm you want to unlock the sensor.

The Epilepsy Sensor Transmitter is now unlocked and can now be configured.

Language Selection

The first time you switch it on, the Epilepsy Sensor Transmitter will be configured to English language. You can change the language setting it is incorrect.
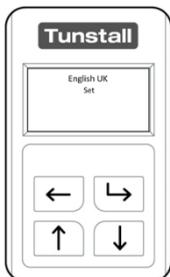
After unlocking the Epilepsy Sensor Transmitter, the "Configuration'' Menu will be displayed.
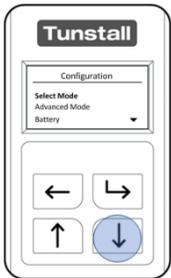
Select ''Language/Country'' from the ''Configuration'' Menu, once highlighted press the "Select Button".

The "Language/Country" Menu displays a list of available languages. Navigate this list using the "Up Button" and the "Down Button" then use the "Select Button" to choose the new language.

The Epilepsy Sensor Transmitter will confirm on screen that the newly selected language has been set. Once completed, the Epilepsy Sensor Transmitter will return to "Configuration'' Menu
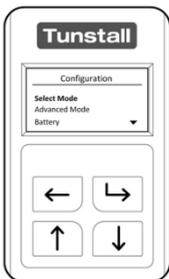
3. Configuration Menu

The "Configuration'' Menu is accessed after **unlocking the Epilepsy Sensor Transmitter** and contains a list of the options used to set up the Epilepsy Sensor Transmitter.

|	
Select Mode:	Used to select which predefined sensor type the Epilepsy Sensor Transmitter should operate as. This sensor is pre-configured to epilepsy.
Advanced Mode:	Changes can be made here to the Contact type (Normally Open NO / Normally closed NC) and the Input: 1 - RJ11 2 - 3.5mm
Battery:	Used to configure Auto Low Battery (ALB), Auto Presence (AP) and view the status of the replaceable battery.
Language:	Displays a list of selectable languages which the Epilepsy Sensor Transmitter supports.
Send Message:	Sends a test radio message from the Epilepsy Sensor Transmitter. This will generate an alarm on the Tunstall system.
Setup Summary:	Displays the current configuration of the Epilepsy Sensor Transmitter.
About:	Displays the current installed firmware.
Exit:	Exits the Configuration Menu.

Select Mode

The Epilepsy Sensor Transmitter is adapted from Tunstall's Universal Sensor and it is therefore possible to reconfigure the sensor to work as a wide range of 3rd party devices (see the Universal Sensor guide for further information).

"Select Mode" is used to select which sensor type the Epilepsy Sensor Transmitter should operate as. The sensor is pre-configured to function with Epilepsy sensors; however, it can be re-configured to operate in different functions.
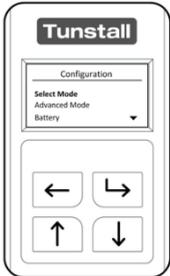

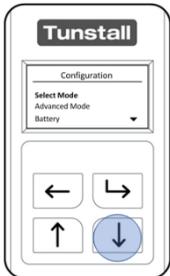After unlocking the Epilepsy Sensor Transmitter, the "Configuration'' Menu will be displayed.
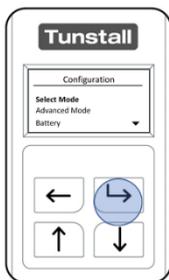
The "Select Mode" Menu will be highlighted when first opening the "Configuration'' Menu, press the "Select Button" to enter "Select Mode".
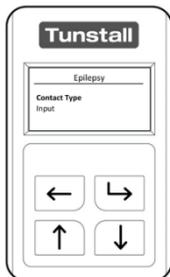
Advanced Mode

To access the ''Advanced Mode'' menu:

After unlocking the Epilepsy Sensor Transmitter, the "Configuration'' Menu will be displayed.

Press the "Down Button" once to navigate to the "Advanced Mode" Menu and press the "Select Button".

The "Advanced Mode" Menu for the Epilepsy Sensor Transmitter allows the Input and the Contact Type to be changed.

Suggested Configuration: this can be changed using **"Advanced Mode"**.

Contact Type	NO
Input	Input 1
Cable Connection	Specialised 3rd party cable into the RJ11

The Epilepsy Sensor Transmitter can now be connected to the Abilia sensor and the **Tunstall System**. Tunstall recommends completing a test call before leaving the property.
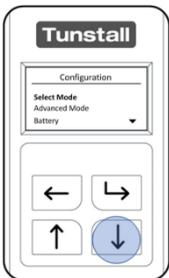
The Epilepsy Sensor Transmitter has a specific interface to ensure compatibility with Abilia. If you are not using this type of Epilepsy Sensor please contact the manufacture of this sensor for compatibility.
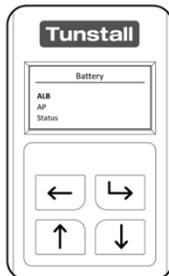
Battery

To access the Battery menu:
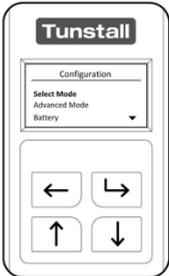
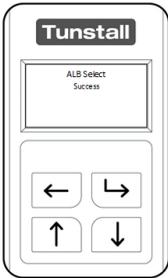After unlocking the Epilepsy Sensor Transmitter, the "Configuration'' Menu will be displayed.

Press the "Down Button" to navigate to the "Battery" Menu and press the "Select Button".


The ''Battery'' Menu has 3 options; **ALB** (auto low battery)**, AP** (auto presence) and **Status**. The Epilepsy Sensor Transmitter must operate in either ALB or AP Mode.

ALB – Auto Low Battery

When the battery is low the Epilepsy Sensor Transmitter will automatically notify the monitoring centre. The battery should be replaced within 2 weeks of receiving an ALB warning. The ALB warning will be generated every 7 days or upon generating a radio message until the battery has run out.

AP – Auto Presence
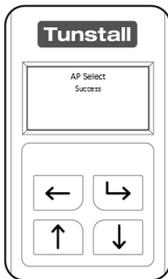
Auto Presence provides additional checks to provide reassurance that the Epilepsy Sensor Transmitter is functioning on supporting Tunstall systems. When AP is active the Epilepsy Sensor Transmitter sends a signal to the home unit every 4 hours.

If the Tunstall System has not seen 18 consecutive AP messages, it will generate an AP failure message which informs the monitoring centre there is a problem with the Epilepsy Sensor Transmitter e.g. it has been removed from the property, it has stopped working or the battery has been removed.

If the Epilepsy Sensor Transmitter is used in AP mode and removed from the property, the device will need to be deleted from the system, otherwise AP failure alarms will continually be generated.

Status

Using the "Status" Menu it is possible to check the current state of the battery. The battery will either report "Normal" or "Low". When "Low" is displayed the battery should be replaced and at this stage the Epilepsy Sensor Transmitter will have sent an ALB alarm to the monitoring centre.
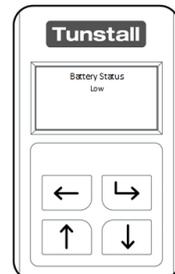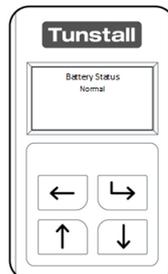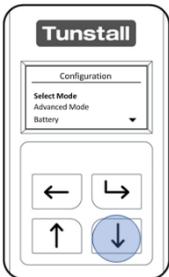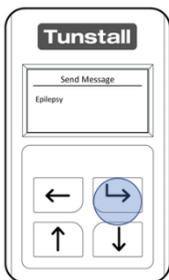
Send Message

Once configured it is recommended to test the radio connection of the Epilepsy Sensor Transmitter to the Tunstall System; this can be done using the "Send Message" Menu.
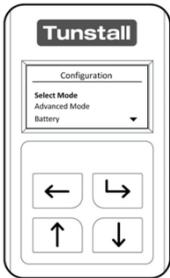
After unlocking the Epilepsy Sensor Transmitter, the "Configuration'' Menu will be displayed.

Press the "Down Button" to navigate to the "Send Message" Menu and press the "Select Button".

The Epilepsy Sensor Transmitter will display the radio message "Epilepsy". Press the "Select Button" to send the selected radio message or "Back Button" to exit.

After pressing the "Select Button" the Epilepsy Sensor Transmitter will send the radio message to the Tunstall System.

Once the radio message has been sent by the Epilepsy Sensor Transmitter; it will confirm the status on screen. If **configured** correctly to the Tunstall System this will now receive the transmitted radio message.

Note: Always make an end to end test call to the monitoring centre by activating the device Eplipepsy Sensor connected to the Epilepsy Sensor Transmitter.
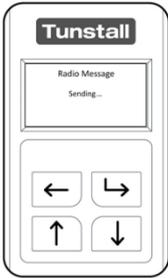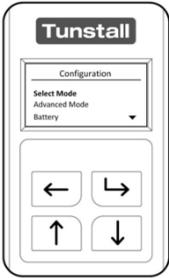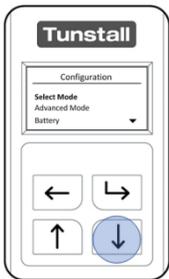
Setup Summary

After unlocking the Epilepsy Sensor Transmitter, the "Configuration" Menu will be displayed.

Press the "Down Button" to navigate to the "Setup Summary" Menu and press the "Select Button".

The Sensor Type and configuration will be displayed.

Pressing the "Down Button" will then display the Sensor ID. After 8 seconds the Epilepsy Sensor Transmitter will revert to the "Configuration'' Menu.

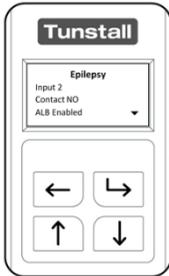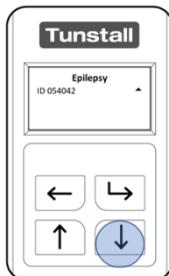## About

The ''About'' Menu displays the installed firmware version.

 After unlocking the Epilepsy Sensor Transmitter, the "Configuration" Menu will be displayed.

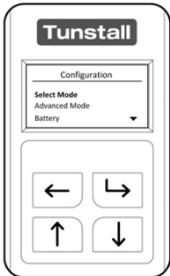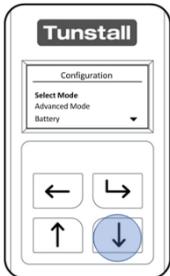 Press the "Down Button" to navigate to the "About" Menu and press the "Select Button".

 After displaying the installed firmware version; the Epilepsy Sensor Transmitter will timeout of the "About'' Menu after 5 seconds and will return to the "Configuration" Menu.

4. Selecting the Epilepsy Sensor Transmitter operating mode

After **unlocking** the Epilepsy Sensor Transmitter and entering **"Select Mode"** navigate the menu using the "Up Button" and or "Down Button".
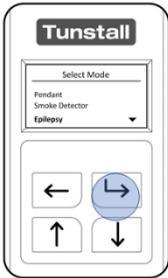
When "Epilepsy" is highlighted press the "Select Button"
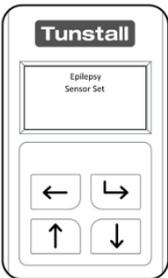
The Epilepsy Sensor Transmitter will confirm it is now configured to be used with a 3rd party device as an Epilepsy Sensor Transmitter.

5. How to factory reset the Epilepsy Sensor Transmitter

A reset sets all the settings on the Epilepsy Sensor Transmitter back to factory default. The Epilepsy Sensor Transmitter will then need to be programmed before it can be deployed.

With the LCD activated press and hold the "Up Button" and "Down Button" for 30 seconds.

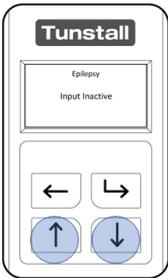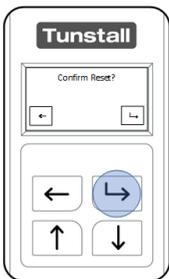After holding for 30 seconds the LCD will display "Confirm Reset". Press the "Back Button" to cancel and the "Select Button" to confirm.
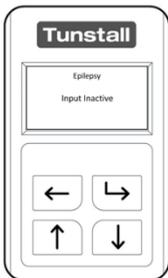
After a reset the unit will go to home screen and display: "Epilepsy – Input Inactive" the display language will be English and can be changed, if required using the "**Language Selection**" menu.

The transmitter will need to be configured before it can be installed.

6. How to program to the Tunstall Systems

Lifeline home units

The Epilepsy Sensor Transmitter enables Plug and Play programming. This is achieved by putting the Tunstall home unit into radio trigger assign mode and then generating a radio transmission from the Epilepsy Sensor Transmitter by activating the device to which it is connected (e.g. door contacts, bed sensor mat).

Press and hold the cancel button on the Tunstall home unit until it beeps (some units will announce 'programming mode').

1. Press the cancel button again until the Tunstall home unit beeps.

2. Then activate the Epilepsy Sensor Transmitter by activating the device to which it is connected (e.g. switch contacts, bed sensor mat). The LED on the Epilepsy Sensor Transmitter should flash to confirm a radio transmission has been sent.

3. The Tunstall home unit should beep to confirm the Epilepsy Sensor Transmitter has been programmed to the unit (some units will announce the name of the sensor that the Epilepsy Sensor Transmitter is configured to e.g. 'door sensor programmed')

Other Tunstall Systems

Please consult the relevant installation manuals.

7. Notes and Warnings

Service Information

The Epilepsy Sensor Transmitter contains no user serviceable parts. It contains an EVE ER14505V 3.6V battery with up to 5 years (typical usage). This battery is replaceable and when it has expired it should be disposed of according to current local regulations.

Changing the battery

To change the battery of the Epilepsy Sensor Transmitter;

- Place the sensor face down on the desk.
- Remove the battery cover, lifting the cover up from the centre of the Sensor.
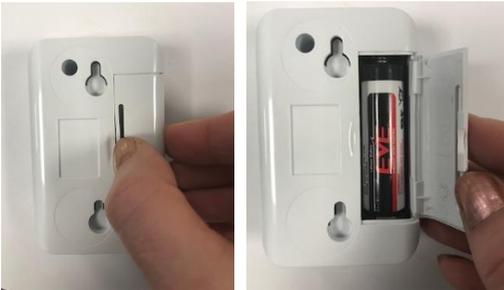
- Eject the current battery and dispose of according to local regulations.
- Insert a new 3.6V AA Battery. Tunstall recommends using the EVE ER14505V
- Replace the battery cover; replacing the outside prongs in first, ensuring that it is securely fitted.

- The Epilepsy Sensor Transmitter will power on retaining its previous operational mode.

Note: Following a battery change remember to check the configuration is still relevant to the user.

Note: Remember to wake the screen using the "Select Button" before beginning programming.

Warning – During battery replacement the Epilepsy Sensor Transmitter will not be able to generate a help call.

8. Compliance and Standards

Radio Frequency:	869.2125MHz
Radiated Power:	Less than 1 milliwatts
Area of Use:	Europe
Environmental Group:	Group 2 – Indoor in general
EMC:	EN 55032
	EN 301 489-1
	EN 301 489-3
	EN 50130-4
Radio:	EN300 220-2
Safety:	EN60950-1
Design, Manufacture Installation and Service:	ISO 9001:2008

Declaration of conformity

Tunstall declare that the radio equipment is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following address: **uk.tunstall.com/approvals**

t: **01977 661234**
f: **01977 660562**
e: **enquiries@tunstall.com**
w: **uk.tunstall.com**

Tunstall