869MHz Companion Mini Epilepsy Monitor

Trusted Technology
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- Detects tonic-clonic, partial or generalised seizures
- Compatible with Reach IP, Advent XT2, Carer Response and Touchsafe pro V4.01 onward
- Product Code: ZXT846

Companion Mini Unit

- Wireless battery powered bed sensor
- Robust and tamper-proof casing
- Frequency: 434.075MHz
- Radio range: up to 200 metres
- 2 x AAA Alkaline user replaceable batteries
- 12 months battery life (typical)
- Low battery warning
- B-Micro USB 2.0 (for advanced config setup)
- Weight: 54 grams
- Dimensions: 100mm x 45mm x 15mm (HxWxD)
- Operating Temperature: +5°C to +35°C, 90%RH

Connect-iT Unit

- Mains powered/battery backed alarm unit
- Plug-top mains adapter: 12V DC (Type: P171A)
- 2 x AA 1.2V 2500mAh NiMH rechargeable batteries
- 24 hours battery back-up (typical)
- Weight: 175 grams
- Dimensions: 90mm x 90mm x 31mm (HxWxD)
- Operating Temperature: +5°C to +35°C, 90%RH

Telecare Transceiver

- Factory fitted inside the Connect-iT unit
- Frequency: 869.2125MHz Class 1.5
- Digital Heartbeat
- 5 year Lithium battery (typical)
- Low battery warning

IMPORTANT: refer to the Alert-it Companion Mini Connect handbook supplied in the carton for more detailed information on installation, operation, and maintenance of the product.

Positioning

The Companion Mini bed sensor should be placed under the mattress beneath the user. Due to the wide variety of bed types and mattresses it is advised to perform several tests during installation to establish the best position.
The foam block provided in the carton can be placed under the Companion Mini to increase sensitivity. Further adjustments can be made using the Profile Editor software available as a free download from Alert-it.

Normal Operating Mode

To maintain charge of the battery back-up the Connect-iT unit should be left plugged-in to the mains supply.
The POWER LED should be lit steady green.
The MONITOR LED on the Connect-IT unit should flash red every 8 seconds to indicate radio communications are OK between the Companion Mini and the Connect-iT.

Alarm Condition

An alarm call is transmitted if the bed sensor detects excessive movements in the bed for a period greater than 15 seconds*. The epilepsy monitor will reset itself and return to normal operation 1 minute after an alarm.
*Note: this delay before alarm period can be changed using the Alert-it Profile Editor software.

Companion Mini Low Battery Condition

When the bed sensor battery gets low the MONITOR LED on the Connect-iT unit will flash red every second.
Replace the 2 x AAA Alkaline batteries inside the Companion Mini as soon as possible.
If bed sensor battery gets very low the MONITOR LED will flash red every second and the ALARM LED will start to flash red every 2 seconds.

Connect-iT Low Battery Condition

If the mains supply fails the battery backup will maintain operation for about 24 hours.
When running on the battery backup, the POWER LED will turn from solid green to a green flash every 4 seconds.
When the battery backup begins to get low the POWER LED will flash green every second.
When the battery backup gets very low the MONITOR LED will begin to flash red every second and the ALARM LED will flash red every 2 seconds.
It will take about 12 hours to fully recharge the battery backup when the mains supply is restored.

Telecare Transceiver Low Battery Condition

If the Telecare transceiver battery becomes low this will be reported automatically to the Alarm Receiving Centre (ARC) or the local Manager. The complete Connect-iT unit must be returned to Tynetec for battery replacement.

Tynetec, a business unit of Legrand Electric Ltd
Cowley Road, Blyth Riverside Business Park, Blyth, Northumberland, NE24 5TF.
Tel: +44 (0) 1670 352371 **www.tynetec.co.uk**

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Out of Range Notification (Reach IP)

The Reach IP can monitor all radio peripheral devices to determine whether they have been damaged or removed from an installation. Should the Reach IP be unable to detect a device's heartbeat it will automatically generate a "radio out of range" notification. Firstly, investigate if there's a genuine reason for the alert, if not, arrange for the peripheral device to be replaced immediately.
Note: the "Radio out of range timer" can be set from 30 hours to 99999 hours in Pulse CMP. "Radio supervision" can be disabled by unchecking the tick box associated with each peripheral device in Pulse CMP.

Maintenance

Wipe with a damp cloth and mild detergent, do not use solvents or abrasive cleaners. Avoid getting any liquid into the micro-USB connector.

Disposal

Waste electrical products should not be disposed of with normal household waste. The epilepsy monitor is ideally suited for disposal within the waste electronic and electrical equipment (WEEE) recycling scheme. Please recycle where facilities exist. Check with your local authority or contact your supplier for recycling/disposal advice.

Warning

The Connect-iT unit contains a rechargeable Nickel Metal Hydride and a Lithium battery.
If tampered with the batteries may be damaged and create a fire hazard. Do not incinerate.

Telecare Radio ID

The epilepsy monitor includes a radio transceiver to communicate with the Reach IP, XT2 or Carer Response.

The Radio ID is a 10-digit code printed on the Connect-iT label…



Alert-it Profile Editor Software

Download free software from www.alert-it.co.uk/support
Connect the Companion Mini to your PC using the micro USB lead provided in the carton to adjust the sensitivity and delay before alarm.

Installation

1. Turn on the Companion Mini by pressing the TEST button with a pen tip. The ALARM light will flash green for 60 seconds during the power-up test mode.
Note: an alarm call will be transmitted when any movement is detected during the test mode.



2. Turn on the Connect-iT unit by pressing the PAIR button with a pen tip. The POWER light will flash green when its running on its battery back-up.



Connect the P171 adapter and plug into the mains supply. The POWER light should now be lit steady green.
During normal operation the MONITOR light should flash green every 8 seconds when a transmission is received from the Companion Mini.

3. Put the Companion Mini into test mode and place it under the mattress in a central location. Pat the bed to simulate a seizure and check the MONITOR and ALARM lights flash red on the Connect-iT unit.

4. If movement is not detected due to the mattress thickness or density, then the foam pad provided in the box can be used to increase sensitivity. Use the sticky pads to secure the foam to the bottom of the Companion Mini. Put the Companion Mini back into test mode and place it back under the mattress and re-test.

5. If movement is still not detected, then the sensitivity may need to be increased by connecting the Companion Mini to a PC using the Profile Editor software.

How to test the Epilepsy Monitor

Pat the bed with constant rhythm for at least 15 seconds until the MONITOR light comes on steady red and the ALARM light flashes red on the Connect-iT unit.
An epilepsy alarm signal will be transmitted.
After approx. 1 minute the epilepsy alarm will reset itself i.e. the red lights will go out and the MONITOR light will flash green every 8 seconds.

How to adjust the Sensitivity

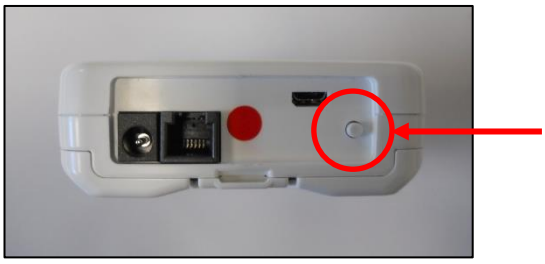
The default sensitivity setting should be suitable for detecting spasms in a domestic bed.
The sensitivity can be changed using the Alert-it Profile Editor software.

How to adjust the Time Delay

This is the time for which the distress condition must occur before an alarm is transmitted. The delay can be changed using the Alert-it Profile Editor software.
The delay should be set to minimize false alarms during normal movement. The default time delay of 15 seconds will normally be a good compromise between speed of detection and avoiding false alarms during nocturnal restlessness or coughing, turning, etc.

How to turn the Epilepsy Monitor off

If the epilepsy alarm is being taken out of service and stored for a prolonged period, then it should be powered-down as described below.
Switch off and disconnect the mains adapter from the Connect-iT unit.



Press and hold the small white button on the bottom face of the Connect-iT unit, the POWER light will go steady green and the MONITOR light will go steady red, after about 3 seconds a series of tones will sound and the MONITOR light will go out. Keep the button pressed until the ALARM light goes red and the POWER light flashes green. Release the button and the Connect-iT unit is now switched off.
Remove the batteries from the Companion Mini during storage.

Registering the Epilepsy Monitor onto a Reach IP

Login to Pulse CMP (www.tynetecpulse.com) and enter the Reach IP Serial No. in the **ALARM UNIT** view. Press the **Accessories** button and enter the Radio ID code, Location and Equipment type. Press **Save** then ↻ **Synchronize**.
IMPORTANT: when the epilepsy monitor is installed a test call must be made to check operation and start the digital heartbeat.

Alternatively, with the Reach IP in normal operating mode undo the fixing screw and remove the stand or connector cover to access the ● Power button.

● Power Button

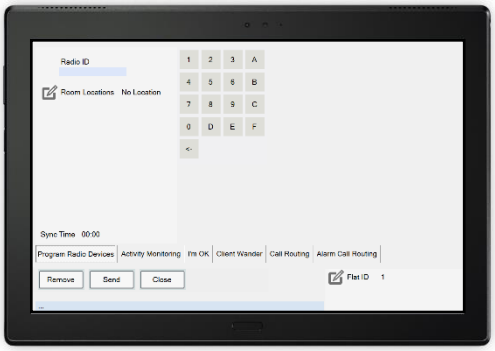


Press the ● Power button to enter Control Mode, then press and hold the □ button until the unit announces "*add radio device*" then release.
Press the ● button to confirm then activate the epilepsy monitor by patting the bed with constant rhythm the MONITOR light comes on steady red and the ALARM light flashes red on the Connect-iT unit.
The Reach IP unit will sound a high beep if it's a new device and announce "*range test mode*".
Press ● to confirm, or press □ to step to the next function, or press ○ to exit the mode.
Activate the epilepsy monitor again to check operation.

Tynetec, a business unit of Legrand Electric Ltd
Cowley Road, Blyth Riverside Business Park, Blyth, Northumberland, NE24 5TF.
Tel: +44 (0) 1670 352371 **www.tynetec.co.uk**

Registering the Epilepsy Monitor onto an XT2

Press the **Settings** button on the Home page of the Manager's Panel. Press the Manager (or Engineer) button, enter the password and press the **Programming** button. Select the **Program Radio Devices** option from the tabs along the bottom of the screen.



Press **Flat ID** and enter the flat number the epilepsy monitor is being installed in. Enter 4-digits e.g. 0014.
Press **Radio ID** and enter the 10-digit code taken from the label on the back of the epilepsy monitor.
Press **Room Locations** and select where the epilepsy monitor is located from the on-screen options.
Press the **Send** button to update the XT2 system.

Activate the epilepsy monitor to check operation by patting the bed with constant rhythm until the MONITOR light comes on steady red and the ALARM light flashes red on the Connect-iT unit.

Registering the Monitor onto a Carer Response

Refer to the Carer Response user manual for full details of the button functions and how to navigate the menus.

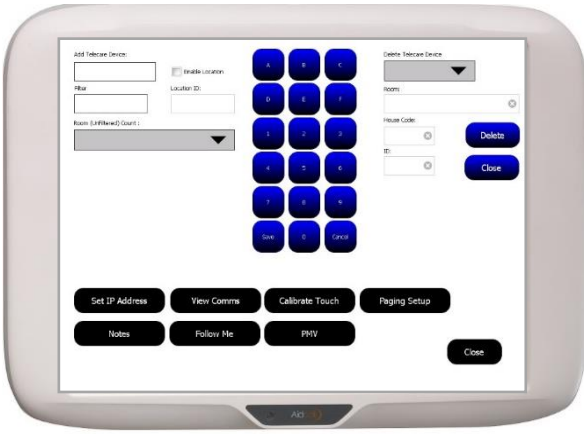


From the Main menu select **Programming**.
From the Programming menu select **Add transmitter**.
The display will prompt you to ***Activate the transmitter…***
Activate the epilepsy monitor by patting the bed with constant rhythm until the MONITOR light comes on steady red and the ALARM light flashes red on the Connect-iT unit.
The Carer Response will beep, and the display will change to the **Add transmitter** menu with a box showing **No ID**.
Press ↵ then ▼ to select **Room**, then press ↵
Press ▼ to select the room number box **0000**.
Press ↵ to select the first digit, press ↵ to move between the digits and press ▲ or ▼ to change each digit.
Press ↵ when the correct room number is displayed.
Press ▼ to select the alarm type box **None**.
Press ↵ then ▼ to select **Epilepsy alarm** then press ↵
Press the ▼ button to select **Save** then press ↵
The display will show ***Radio ID saved to memory…***
Return to the **Main menu** and select **Quit**.
Activate the epilepsy monitor again to check operation.

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Registering the Epilepsy Monitor onto a Touchsafe Pro

Login to the Master Touchsafe Pro Nursecall Panel (must be V4.01 onward) using Engineer or Manager password. From the Main Menu page select the **Telecare** option to open the screen shown below.



Touch the **Add Telecare Device** box and enter the Telecare device 10-digit Radio ID using the on-screen keypad.
Touch the **Filter** box and enter the zone you want to add the Telecare device to using the on-screen keypad.
Touch the **Room** box ▼ and select the Callpoint ID from the list that will be used to cancel the Telecare alarm.
Touch the **Save** button on the keypad.
Touch the **Close** button to exit.
Activate the epilepsy monitor to check operation by patting the bed with constant rhythm until the MONITOR light comes on steady red and the ALARM light flashes red on the Connect-iT unit.

Declaration of Conformity

We declare this product complies with the relevant UK legislation on condition that it is used in the manner intended, and in accordance with the current installation standards and/or the manufacturer's recommendations. A copy of the full UKCA Declaration of Conformity is available on request.

We declare this product complies with the relevant European legislation on condition that it is used in the manner intended, and in accordance with the current installation standards and/or the manufacturer's recommendations. A copy of the full CE Declaration of Conformity is available on request.

Chris Dodd
CEO
Legrand Assisted Living & Healthcare