869MHz Dynamic Fall Detector

Trusted Technology
Caring for People

DIGITALLY ENABLED



- Portable alarm trigger device
- Compatible with Reach IP, Advent XT2, Carer Response and Touchsafe Pro V4.01 onward
- Water resistant: suitable for accidental splashes
- Not intended for prolonged submersion or high pressure shower contact. Not suitable for showering & bathing
- Alarm call button
- Red alarm transmit reassurance LED
- Green alarm received reassurance LED
- 3 operating modes: Low, High, or Dynamic
- Automatic 3 day inactivity alert
- 2 year battery life (typical)
- Low battery warning
- User replaceable CR2032 Lithium battery
- Frequency: 869.2125MHz Class 1.5 Transceiver
- Digital Heartbeat
- Operating Temperature: -10ºC to +55ºC
- Weight: 29 grams
- Dimensions: 49mm x 30mm x 9mm (HxWxD)
- Product Code: ZXT806

Wearing Instructions

The Fall Detector is worn on the wrist like a watch.
To minimise false alarms, it should be worn on the least dominant side; i.e. a right-handed person should wear it on their left wrist and vice-versa.
The Fall Detector automatically detects a change in acceleration that is related to trips and stumbles, it then monitors for the subsequent impact associated with a fall.
The Fall Detector also has a button to manually activate an emergency alarm call. Calls can be made from anywhere in the home. In residential housing, calls can be made from anywhere on the scheme.

IMPORTANT: due to the complex nature of falls it may not be possible for the Fall Detector to automatically detect all falls. Users should be advised that if they are able, to press the button on the Fall Detector if they need help.

Emergency Alarm Call

An alarm call is made automatically if a fall is detected or if the button is pressed – no further action is required.
The button will flash red to indicate a call has been transmitted; it will then flash green as reassurance that the call has been received by the Reach IP or XT2 system – it does not flash green when used with a Carer Response.

Operating Mode

The Fall Detector can be set to operate in one of three sensitivity modes. Low is designed for individuals who are fairly active, reducing the likelihood of a false alarm from occurring. High sensitivity mode is designed for individuals who are less mobile and is designed to pick up soft falls. Dynamic mode actively switches between sensitivity modes depending on a user's baseline activity.

Inactivity Alert

If used with Reach IP an inactivity alert will be reported on Pulse if the Fall Detector is not worn for 3 consecutive days.

Low Battery Condition

A low battery condition will be reported automatically to the Alarm Receiving Centre (ARC) or the local Manager.
The Fall Detector battery should be replaced as soon as possible within 10 days.

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.
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

Test the Fall Detector once every month. Clean with a damp cloth, do not use solvents or cleaning fluids. After exposure to moisture, the device MUST be thoroughly dried with a soft cloth. Avoid direct contact with soaps, shampoos, or detergents which can degrade seals.

Disposal

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

Warning

The Fall Detector contains a Lithium battery. Used batteries should be disposed of responsibly at a local collection point.

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Setting-up and Testing

To determine the most appropriate sensitivity setting for an individual user we recommend that the Service Provider carries out a user assessment prior to the device being deployed. Regular test calls should be made in accordance with the guidelines set by the Service Provider.

Guidance for Setting Sensitivity

Setting the sensitivity of the Fall Detector to optimise its performance needs to be considered and adjusted accordingly before it is brought into use. This is essentially due to the complex nature of falls which are the result of an interaction between predisposing and precipitating factors. In addition, the outcome of a fall (in terms of level of impact and likelihood of injury) is also highly variable and will depend on many factors, many of which cannot be known in advance. From the user's perspective, it is necessary to offer the flexibility of having a device that can be sensitive enough to detect 'soft' falls in cases where these types of fall are likely and where they may pose a problem to the user. However, for those end-users where such a fall is either unlikely or is unlikely to pose a significant problem, then a lower sensitivity setting is desirable to reduce the likelihood of false alarms.

Dynamic Mode Explained

Dynamic mode will start in the Low sensitivity state. The sensitivity will move dynamically between High and Low depending on the number of fall events or activity wake ups within a period of 3 days. For the Fall Detector to transition from Low to High there must be no activity wake ups within 3 days.

Setting the Fall Detector Sensitivity Mode

The Fall Detector is supplied, defaulted to Dynamic Mode which allows the device to automatically adjust to the needs of the user. If you wish to change this mode, within 30 seconds of the battery being fitted, press and hold the button for 5 seconds until the red light flashes rapidly.

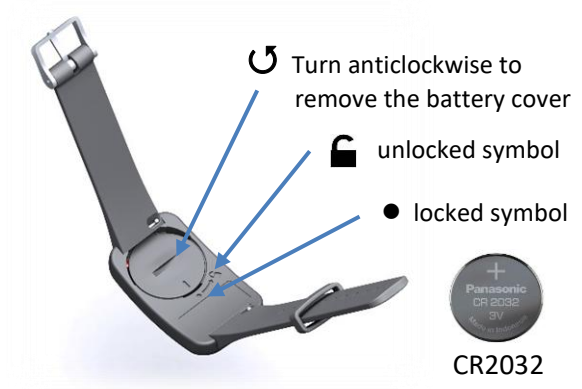
NOTE: *the device will send an alarm as soon as the button is pressed so it may be more convenient to carry out any setting changes prior to registering with the receiver unit.*

Once the flashing has stopped, press the button to cycle through the sensitivity modes. Each mode will be indicated by a number of red flashes on a button press:
1 red flash = **Dynamic Mode**
2 red flashes = **Low Sensitivity Mode**
3 red flashes = **High Sensitivity Mode**
Wait 3 seconds, the mode selected will be indicated by the number of red flashes. If a mode has not been selected the Fall Detector will set the last selected mode from memory.

Fitting & Replacing the Fall Detector Battery

Use a 2p coin (or similar) to turn the battery cover anticlockwise to line-up the ▮ mark on the cover with the unlocked 🔓 symbol on the case.
The cover can now be removed.

Do not ingest battery, chemical burn hazard.



Fit the **Panasonic CR2032 3V** Lithium cell noting the polarity markings inside the case and battery cover i.e. the **+** positive symbol on the battery should be facing up and visible. Refit the battery cover and turn clockwise to fully close. The ▮ mark on the cover should line-up with the locked ● symbol on the case. Alignment marks must be perfectly flush with the locked symbol to maintain radial gasket compression and watertight integrity. Replacement Panasonic CR2032 batteries are available from Tynetec – **Part No. F00160**.
WARNING: inferior quality batteries should not be used; these may impact performance and reduce battery life.

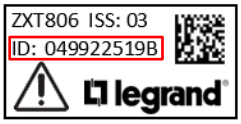
Testing the Fall Detector

1. To test as a Pendant; press the button once.
The button will flash red to indicate a call has been transmitted, it will then flash green as reassurance that the call has been received by the Reach IP or XT2 system.
Check a Pendant alarm call is reported to the ARC or the local Manager/Carer.
2. To test as a Fall Detector; remove from the wrist, hold both ends of the strap in one hand and shake with one quick flick of the wrist. The button should flash red then green as described above. Check a fall alarm call is reported to the ARC or the local Manager/Carer.

Telecare Radio ID

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

The Radio ID is a 10-digit code printed on a label on the back of the Fall Detector…



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Registering the Fall Detector 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 Fall Detector is delivered to the customer 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.

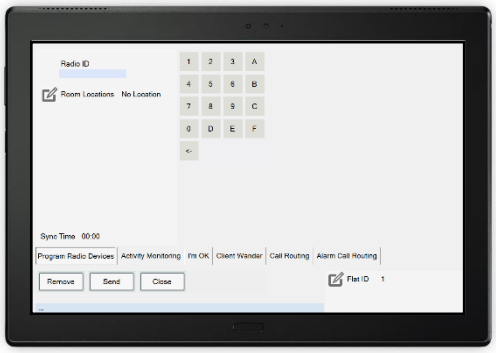
● Power Button



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 press the Fall Detector. 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.
Press the Fall Detector to perform a test call

Registering the Fall Detector onto an Advent 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 Fall Detector 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 Fall Detector.
Press **Room Locations** and select "no location" as the Fall Detector is a portable device.
Press the **Send** button to update the XT2 system.
Press the Fall Detector to perform a test call.

Registering the Fall Detector onto a Carer Response



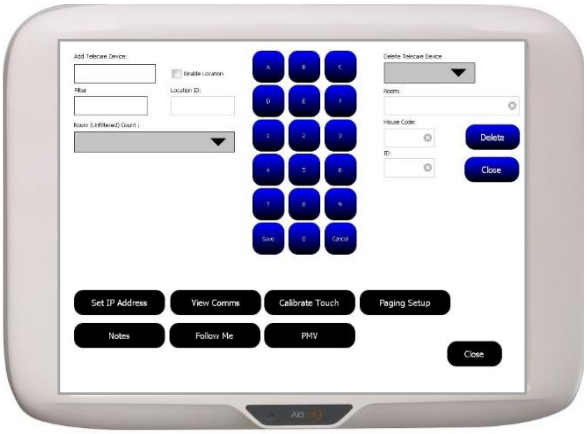
Refer to the Carer Response user manual for full details of the button functions and how to navigate the menus.

From the Main menu select **Programming**.
From the Programming menu select **Add transmitter**.
The display will prompt you to ***Activate the transmitter…***
Press the button on the Fall Detector.
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 **Fall 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**.
Press the Fall Detector to perform a test call.

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Registering the Fall Detector 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.
Press the Fall Detector to perform a test call.

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
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