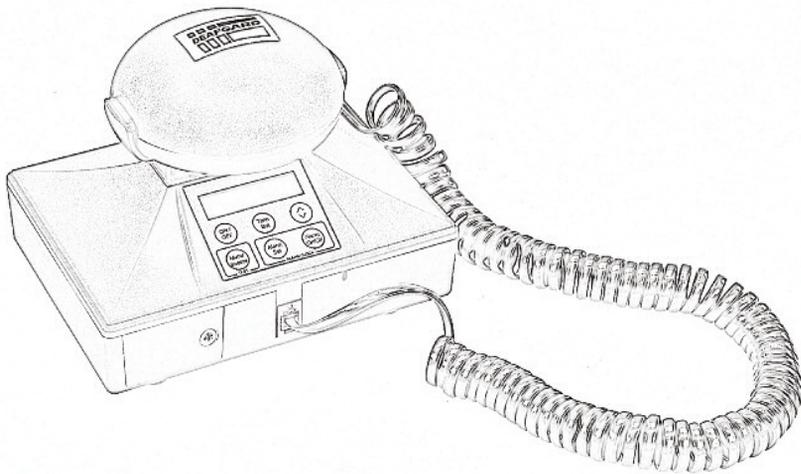




Operating Guide



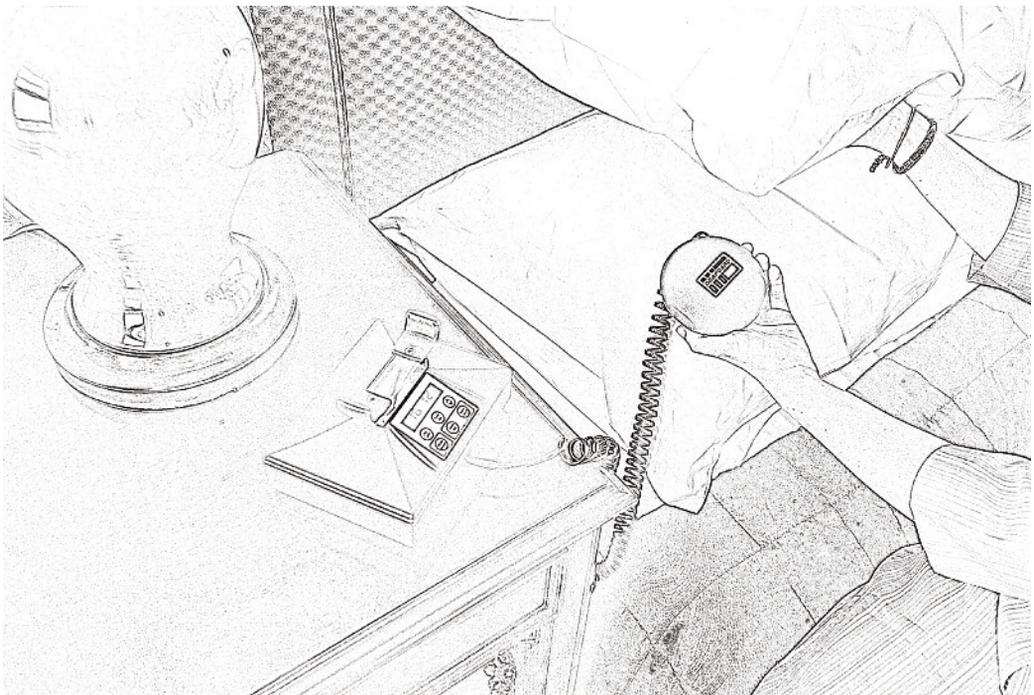
Keep this Guide in a safe place.

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What is Deafgard?

Deafgard is a Battery powered movable Fire and Wake-up alarm. Importantly, Deafgard 'listens' for the fire alarm in a building for persons who are not able to hear. When it 'hears' the building fire alarm, the Deafgard Pillow Pad vibrates and the Strobe Lights flash.

It is designed to be used on a bed-side cabinet from where the Pillow Pad should be placed under the pillow or mattress.

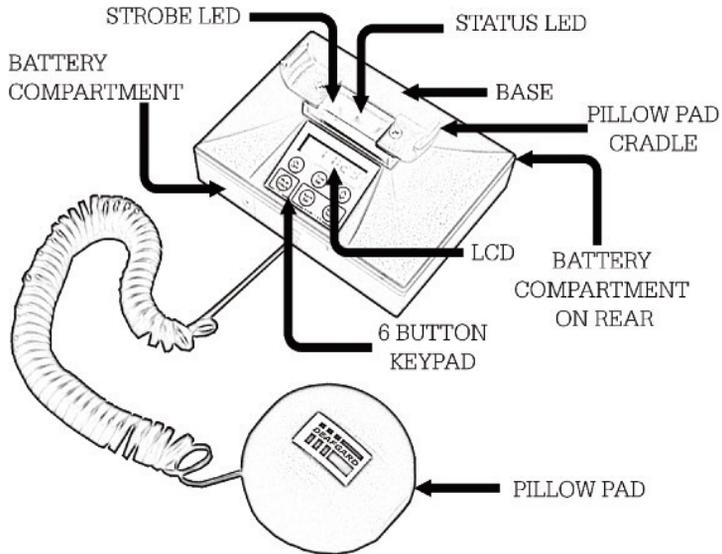


First Check

Have you removed all the contents from the Carton?

You should have:

1. One Deafgard with Pillow Pad and Cable.
2. One Carry Bag.
3. Four 'C' size (LR14) Batteries.
4. One blue Deafgard Sticker (for your deaf or hard of hearing customers).
5. This Operating Guide.



Important Safety Information Prior to Use

Deafgard must only be used for the purpose for which it is designed. It is not suitable for external use. Read this guide and follow the instructions carefully. Keep this Guide in a safe place e.g. in your Fire Log Book, for future reference.

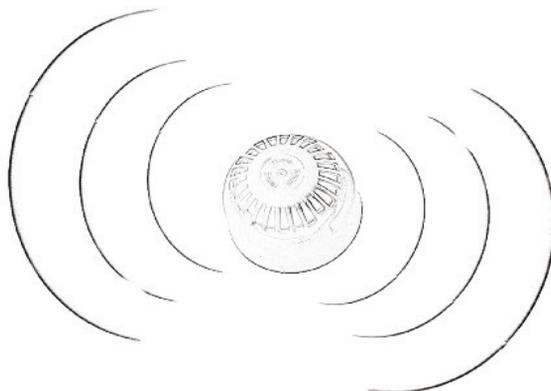
Supplementary information about the sound of a fire alarm:
The British Standard for fire alarm installation, BS5839-1: 2013, (Clause 16.2), states: -

“The sound pressure level of alarm signals should be generally, throughout all accessible areas of the building not less than 65dB(A) . . . where the sound pressure level of background noise is greater than 60dB(A), the sound pressure level of the fire alarm signal should be 5dB above the sound pressure level of the background noise.”

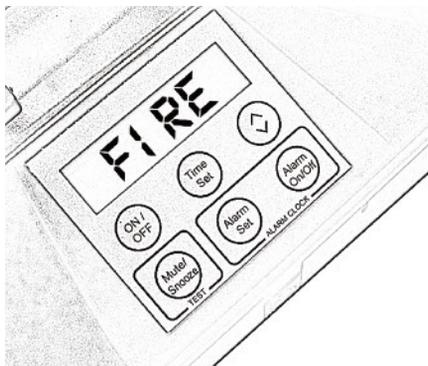
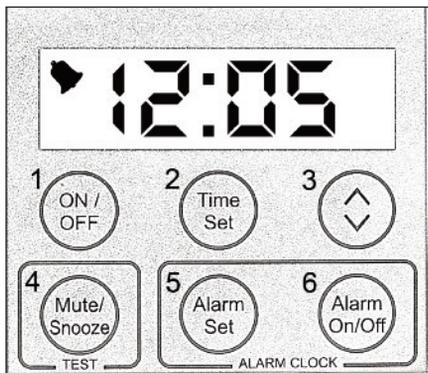
It also states:-

The sound pressure level of alarm signals “should be not less than 75dB(A) at the bed head within rooms in which the fire alarm system is intended to rouse people from sleep.”

Deafgard has been designed to the relevant parts of BS 5446-3: Specification for smoke alarm kits for deaf and hard of hearing people.



LCD & Keypad



Common LCD readouts:

FIRE: Fire alarm has sounded

PAD: Pillow Pad cable has detached or has a fault.

SELF: Deafgard is conducting a Self Test

TEST: Deafgard is conducting a test after Button 4 has been pressed.

The LCD is back-lit and is used to display the Time, Wake-up Alarm settings, low Battery conditions and any faults.

In a fire alarm condition, the LCD will display 'FIRE'.

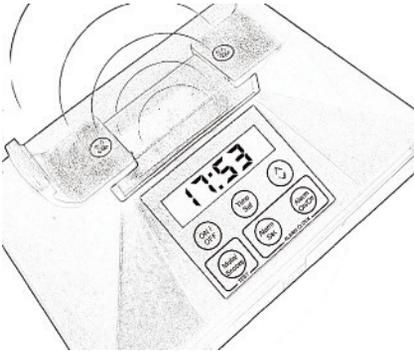
The LCD will display any error messages.

Note: See page 17 for Error Messages.

Keypad

1. Button 1 ON/OFF - Power On/Off.
2. Button 2 TIME SET - Used to set Time.
3. Button 3 SCROLL Adjust Clock and Wake-up Alarm settings.
4. Button 4 MUTE/SNOOZE - Used to mute Wake-up Alarm as well as testing the Deafgard unit.
5. Button 5 ALARM SET - Used to set the Wake-up Alarm.
6. Button 6 ALARM ON/OFF - Turns Wake-up Alarm On/Off.

Getting Started

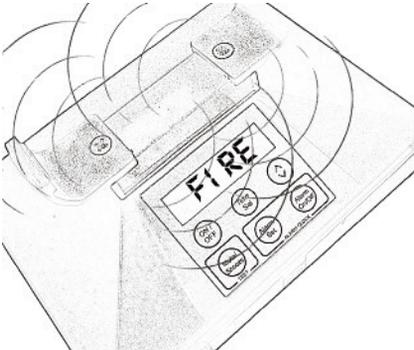


1. Ensure the Pillow Pad Cable has not been disconnected from the Base.

Note: The Pillow Pad should remain in the cradle.

2. Unscrew the Front battery Cover: pull the Cover away from the Base until you feel resistance.

Note: The battery orientation diagram on the inside.



3. Insert two batteries with both Positive (+) ends facing out towards Battery Closer.

Note: The correct orientation is important.

4. Screw the Battery Closer closed.

Note: To not over-tighten.

- a. The clock will be displayed.
- b. Both Strobes should have flashed twice.
- c. A 'bleep' should have been heard once.
- d. The LED should be flashing RED once every 7 seconds.

Getting Started *continued*

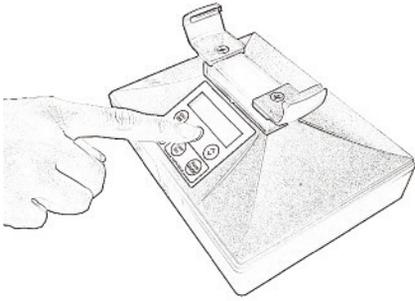
Note: Due to the 'noise' of handling the unit, the Display is likely to read FIRE and the Strobe Lights will flash for 10 seconds.

5. Repeat step 2 - 4 for Rear Battery Closer.

Note: Do not over-tighten.

Note: The Deafgard clock will be displayed on the LCD and starts running once the front batteries are installed.

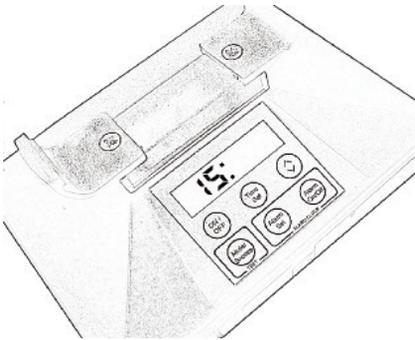
Setting the Time



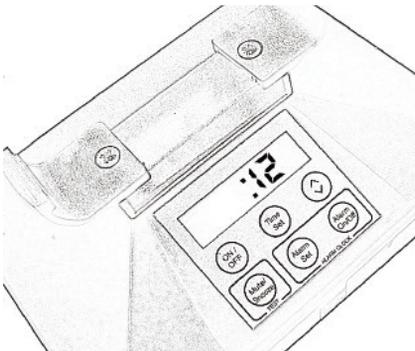
Note: Deafgard operates a 24 hour clock but does not adjust automatically for Daylight saving time.

The Time must be set whenever both sets of batteries are removed or replaced.

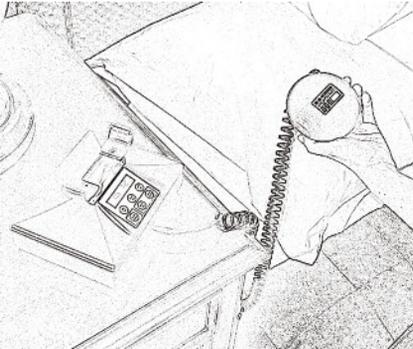
- a. Depress Button 2 TIME SET and hold it down until only the hour numeral is shown.
- b. Depress Button 3 SCROLL to adjust to the Hour.
- c. Depress Button 2 TIME SET to set the Minutes.
- d. Depress Button 3 SCROLL to adjust the Minutes.
- e. Depress Button 2 TIME SET and the correct time of day should be set.



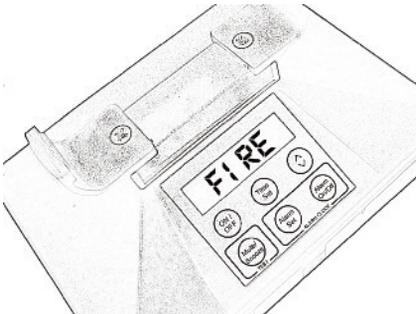
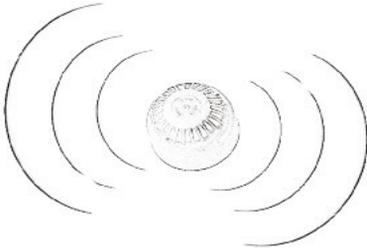
Note: Both Hour and Minutes should be showing and the centre colon flashing.



Fire Alarm Test



1. Place Deafgard where it is to be used, i.e. on the bedside table. Place the Pillow Pad under the pillow.
2. Sound the fire alarm for a minimum of 30 seconds.
3. Deafgard will activate within 20 seconds of the fire alarm sounding.
4. Deafgard will remain in a fire alarm condition until the fire alarm ceases.
5. Should Deafgard not respond to your fire alarm, it may be that your alarm is too quiet. See Sensitivity Adjustment or contact the Technical Advice line.

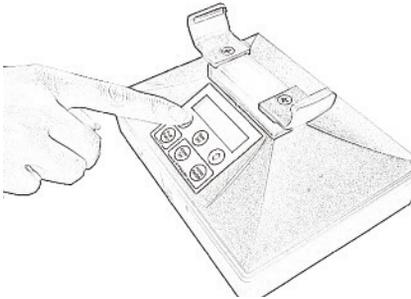


Note: When Deafgard activates 'FIRE' will be displayed on the LCD, the Strobe LEDs on the top of the unit will flash and the Pillow Pad will vibrate.

The Deafgard unit should be placed next to the bed during use with the Pillow Pad under the pillow.



Using Deafgard

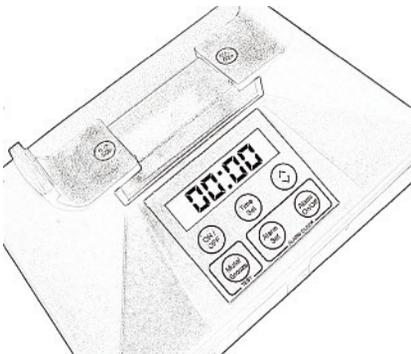


1. To turn the unit On press Button 1 ON/OFF.

2. The LCD will show 00:00 at first power up or if the batteries have been removed, otherwise the time will be displayed.

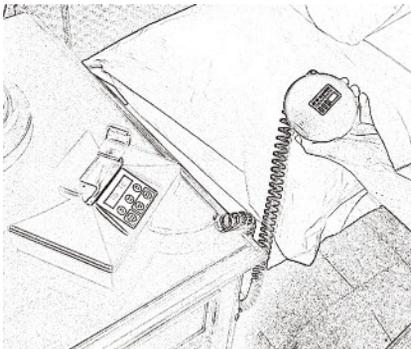
3. The Status LED will flash green every 15 seconds to show the unit is working correctly.

4. To turn the unit Off hold Button 1 ON/OFF for 6 seconds, or until the LCD turns Off.

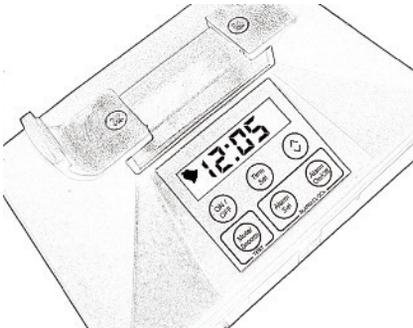
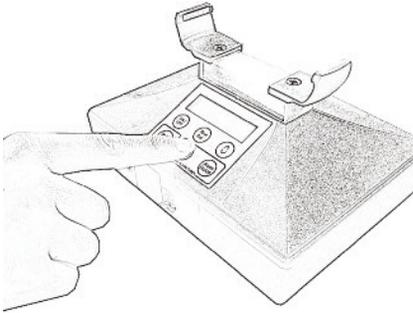


Note: Once turned off Deafgard will not react to the Fire Alarm or work as a wake-up device and the status LED will no longer flash.

Once the unit is in location it is recommended that the unit be left on throughout the day.



Wake-up Alarm - Alarm Clock



When activated, the Wake-up Alarm can be turned Off by pressing Button 6 ALARM ON/OFF.

Button 4 MUTE/SNOOZE will snooze the Wake-up Alarm for 8 minutes on first press, 4 minutes on second and 2 minutes on third.

Deafgard can be used as a wake-up Alarm as well as a fire alarm for the deaf and hard of hearing. When the Wake-up Alarm activates the Pillow Pad will vibrate constantly and the LCD will become back-lit.

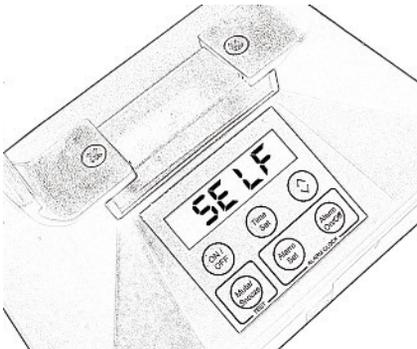
1. To set the Alarm Clock depress Button 5 ALARM SET and hold it until only the hour numeral is shown on the LCD. Pressing this button again allows you to set the minute.
2. Use Button 3 SCROLL to adjust the time. Holding down this button increments the numeral in 1/2 second stages.

Once set, the bell symbol will be displayed on the LCD to show the Wake-up Alarm function is set and On.

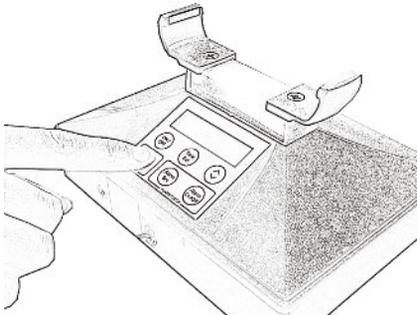
To turn the Alarm Clock On and Off press Button 6 ALARM ON/OFF.

Note: The Strobe LEDs flash only when the fire message is received.

Self Test

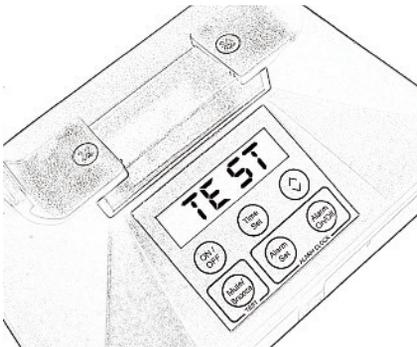


Deafgard performs a Self Test on Battery insertion and every 7 days after that. During the Self Test, Deafgard will check its hardware and the LCD will read 'SELF'. Should Deafgard detect an internal fault it will sound a warning tone, vibrate its Pillow Pad, the Status LED will flash red and the LCD will display the error.



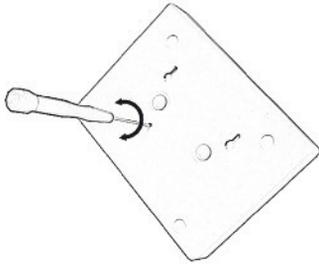
To check the correct activation of Deafgard press and hold the Mute/Snooze button. It will go through a process of self checking and if it finds a fault this will be displayed on the LCD screen. If an error occurs call the Technical Advice line.

We recommend you do this test regularly especially if the Deafgard unit has not been used for some time.



Note: The Pillow Pad will not vibrate if placed in the Cradle.

Sensitivity Adjustment



Note: Deafgard is factory set to be triggered into a fire alarm condition at 75dB(A), as recommended by BS5839-1: 2017.

Deafgard can be adjusted to respond to alarms as quiet as 70 dB. Only adjust sensitivity as a last resort.

On identifying a necessary adjustment, use a narrow electrical flat-headed screwdriver. Take care not to over-adjust as this will render the unit inoperative.

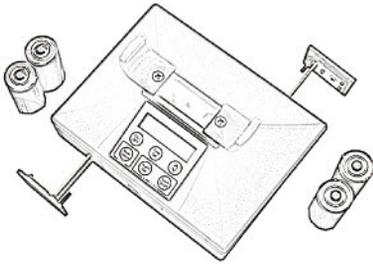
Sensitivity Adjustment if Deafgard is not sensitive enough, i.e. does not respond to the fire alarm:

1. Carefully insert screwdriver into hole on back of the unit.
2. Turn clockwise through no more than 5 degrees (a small adjustment is equivalent to a large alteration in sensitivity).
3. Test Deafgard to the fire alarm.
4. If problems persist, repeat steps 1-3.

Note: The Adjustment Screw is limited in both directions, once you can feel resistance against turning - stop to avoid damaging the unit.

If Deafgard is too sensitive (responds to no apparent sound) follow steps 1-4, but turn anti-clockwise in Step 2.

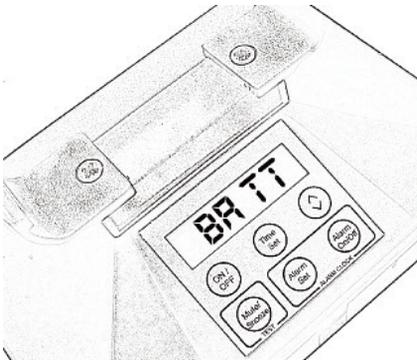
Batteries - use 4 x C Size LR14



Use Alkaline Only (Do Not Use Rechargeable batteries).

The 4 x C Size Procell Alkaline batteries supplied should last at least 12 months. Deafgard continually checks the Battery life ensuring safe operation.

1. Open Battery Compartments using a screwdriver.
2. Insert the batteries into the Battery Compartments (+) positive side facing out. Inserting the batteries the wrong way could cause damage.
3. When closing the Battery Compartments take care not to over tighten.

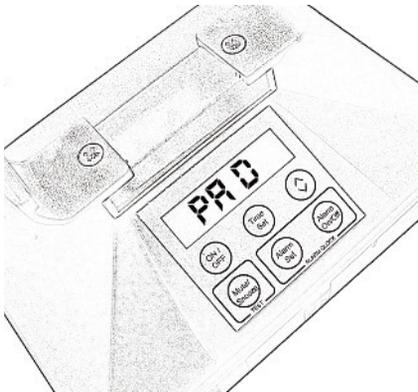


When "BATT" is displayed on the LCD there are 7 days of Battery life remaining, it is recommended the batteries are replaced immediately.

Note: Deafgard saves all Wake-up Alarm times after batteries are removed. But the clock time will need to be set.

Deafgard does not adjust automatically for Daylight saving time.

Trouble Shooting



Note: Deafgard will display error messages on the LCD if a fault occurs. If this happens perform a reset on the unit by removing and re-inserting of all batteries. If error remains contact the Technical Advice line.

The following are the most frequently asked questions regarding the Deafgard unit, with a quick checklist to follow:

1. Why does Deafgard not react to your fire alarm?

- Check fire alarm is louder than 75dB.
- Check batteries.
- Check fire alarm is sounding for at least 30 seconds.
- Adjust sensitivity of the Deafgard unit.

2. Why does the Pillow Pad not vibrate?

- Check Power is On.
- Check batteries.
- Check cable from Pillow Pad is connected securely to the Deafgard unit.
- Check Pillow Pad is not in the cradle.

3. Why do Strobe LEDs not flash?

- Check Power is On.
- Check batteries.
- Check cable from Pillow Pad is connected securely to the Deafgard unit.

4. Why is there no display on the LCD?

- Check Power is On.
- Check batteries.

If all the above points are satisfied and further assistance is required please contact the Technical Advice line.

Error Messages

ER01 – PAD

This may be shown on the LCD as 'ER01' or 'PAD'. The Deafgard will regularly check the pillow pad to ensure it is present.

Resolution: Remove Pillow Pad from Cradle and then remove batteries wait 20 seconds and re-insert batteries, perform self test by pressing "Mute/Snooze" button. If this does not resolve the error please contact Technical Advice line.

ER02 – Motor Jam

Whenever the Deafgard performs a self test routine (once every 24Hrs, or on demand) the operation of the pillow pad motor is checked. The motor is turned on and then the battery voltage is checked. If the voltage drop is too great it is determined that the motor is drawing too much current and has stalled. A Motor Jam error code will then be displayed.

Resolution: Depress and hold Button 4 MUTE/SNOOZE until 'TEST' is shown on Display (after approximately 4 seconds).

- a. 'TEST' should be shown on Display.
- b. Both Strobes should be flashing.
- c. The 'bleep' should be continuous.
- d. The LED should flash GREEN once every 15 seconds.
- e. The Pillow pad should be vibrating.

After 10 seconds the Test should stop and:

- a. Display should show 0:01 or similar, dependent upon time elapsed.
- b. Both Strobes should be Off.
- c. No 'bleep' should be heard.
- d. The LED should flash GREEN once every 15 seconds.

Error Messages *continued*

ER04 – Audio Error

Whenever the Deafgard performs a self test routine (once every 24Hrs, or on demand) the operation of the buzzer and audio circuit is checked. The buzzer is turned on and the output from the audio detection circuits are checked. If any values are outside of the range expected an Audio Error code is indicated.

Resolution: Follow ER01 Resolution however, the Pillow Pad must be disconnected from the unit and then replaced BEFORE the batteries are re-inserted

ER08 – Flash Error

Whenever the Deafgard performs a self test routine (once every 24Hrs, or on demand) the operation of the buzzer and audio circuit is checked. The strobe circuit is checked. The strobe is turned on and the battery voltage is checked. If it is determined that the strobe is not drawing enough current, or it is drawing too much current a Flash Error code will be displayed.

Resolution: Follow ER01 Resolution

ER10 – Comms Error

Information passed between the LCD board and the main processor board regularly and also whenever any buttons are pressed, or the status changes. If a problem is detected with the communications between the two boards a Comms Error code is displayed.

Resolution: Follow ER01 Resolution

ER20 – Battery Pack Flat

This may be shown on the LCD as 'BATT'. Whenever the Deafgard performs a self test routine (once every 24Hrs, or on demand) the battery pack voltages are checked. If the either battery pack voltage drops to or below 1.87V it is deemed to be flat and the error code will be displayed. If the battery is not flat, but is low, the normal low battery indication will be visible on the LCD. Deafgard is a dual battery supply product and uses each set of batteries equally, which will give the Deafgard one year minimum battery life.

Resolution: Replace both battery packs and with new "C" size batteries.

Manufacturer's Warranty

Fireco Limited (“we” and “us”) warrants to the customer (“you” and “your”) that the product will be free from defects in material and workmanship for a period of 24 months from the date of purchase. If the product is defective whilst under warranty we will, at our option, repair the product or replace it free of charge.

If the product appears to develop a defect while under warranty please first check that the product is being correctly used in accordance with this Operating Guide and that the batteries are functioning. If this does not resolve the problem please contact us in writing at the e-mail address shown below or telephone the Technical Advice line.

The warranty does not apply to any defect in the product arising from fair wear and tear, wilful damage, accident, negligence by you or any third party, abnormal working conditions failure to follow the instructions in this Guide, misuse or alteration or repair of the product without our prior approval. The warranty does not cover batteries, which may need to be replaced within the period of the warranty. We will not be liable to you for any loss of profits, administrative inconvenience or indirect or consequential loss or damage arising out of any defect in the product.

Where the products are sold under a consumer transaction (as defined by the Consumer Transactions (Restrictions on Statements) Order 1976) your statutory rights are not affected by the terms of this warranty.

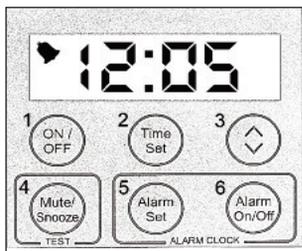


English Version 3.3

Deafgard - Quick User Guide



English Version 3.1



Keypad

- Button 1 - Power On/Off
- Button 2 - Time Set
- Button 3 - Scroll
- Button 4 - Mute/Snooze
- Button 5 - Alarm Set
- Button 6 - Alarm On/Off

How to use

1. Ensure unit is On (LCD will be displayed and the Status LED on the top of the unit will flash green in 15 second intervals). Listening circuits will not work if unit is off.
2. Place the Pillow Pad under the pillow with the Deafgard unit on the bedside table.
3. When a Fire Alarm condition is detected the Pillow Pad will pulse, the Strobe LEDs will flash and the LCD will display 'FIRE'.

Note: The Pillow Pad will not vibrate when placed in the Cradle.

To Set the Time

1. Press Button 2 for two seconds and release.
2. Use Button 3 to adjust hour, press again to adjust minute.
3. Press Button 2 to save hour, press again to save set time.

Note: Deafgard uses a 24 hour clock.

To Set the Wake-up Alarm

1. Press Button 5 for two seconds.
2. Use Button 3 to adjust hour.
3. Press Button 5 to save hour.
4. Use Button 3 to adjust minute
5. Press Button 5 to save Alarm time.
6. Use Button 6 to toggle Alarm On or Off function. (A Bell icon will appear on the LCD when Alarm Clock function is On.)
7. Button 4 will Snooze the Alarm for eight minutes before repeating the Alarm.

Note: When the Wake-up Alarm is activated the Pillow Pad will vibrate constantly and the strobe LED's will not flash.

To Stop the Wake-up Alarm press Button 6.

Refer to Deafgard Operating Guide for detailed instructions.