



# **Fall Detection Unit**

## **USER MANUAL**



**February 2005**

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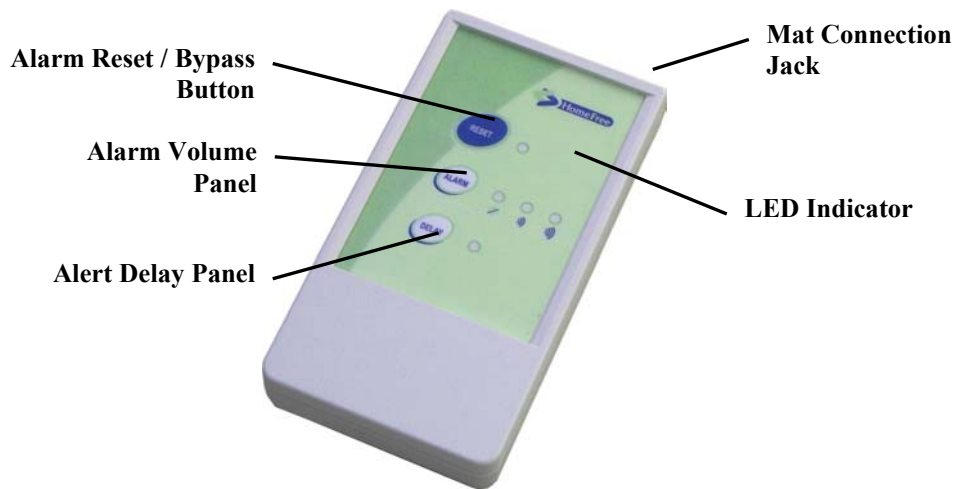
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# 1. Fall Detection Unit Operational Instructions

The HomeFree system was designed to monitor special needs and Dementia individuals in the care center environment. The Fall Detection Unit is one of the many unique elements of this system.

The Fall Detection Unit is a small, battery operated device, connected to a chair or bed monitoring mat, that can be used to notify care center staff members whenever the resident gets out of the chair or bed. The Fall Detection Unit is positioned on the chair or at the bedside. **The Fall Detection Unit is not for use outside the monitored area.**



## **1.1. Connecting the Fall Detection Unit**

Plug the chair / bed mat into the mat connection jack, ensuring that the cable between the mat and the Fall Detection Unit can move freely and is clear of any moving parts. Place the chair / bed mat into its required position (refer to the placement instructions for the appropriate chair / bed mat). Place the Fall Detection Unit on the chair or at the bedside.

## **1.2. Activating / Deactivating the Fall Detection Unit**

Insert the batteries (battery type) in order to activate the Fall Detection Unit. Loosen the screw located on the back lower panel of the Fall Detection Unit and gently remove the cover. Insert the required batteries into the battery holder. The LED indicator illuminates and a single beeping sound is heard. Gently replace the cover and tighten the screw holding the back lower panel.

ONCE IN ACTIVE MODE, THE FALL ALERT UNIT AUTOMATICALLY SENDS A TRANSMISSION (EVERY 18-22 SECONDS – NON PERIODIC TRANSMISSIONS) INDICATING THE CURRENT BATTERY STATUS AND CURRENT LOCATION INFORMATION. THIS STATUS MESSAGE IS SENT AS LONG AS THE FALL DETECTION UNIT IS ACTIVATED.

To deactivate the Fall Detection Unit, simply remove the batteries from the unit.

### **1.2.1. Setting the Fall Alarm Volume**

The level of the audible fall alarm depends on the level defined on the Alarm Volume panel. Holding the Fall Alert Unit tightly, press the Alarm button until the desired level is selected. The alarm level options are; silent, low or loud. The illuminated LED indicates the alarm level selected.

### **1.2.2. Setting the Fall Alarm Delay**

The delay time of the audible fall alarm depends on the level defined on the Alarm Delay panel. Holding the Fall Alert Unit tightly, press the Delay button until the desired level is selected. The delay level options are; 3-second delay (non-illuminated LED) or 5-second delay (illuminated LED). The LED status indicates the delay level selected.

## **1.3. Initiating a Fall Alarm**

The Fall Detection Unit begins to monitor for falls after the resident sits or lies on the chair / bed mat for more than 15 consecutive-seconds. If the resident gets up from the chair or bed once the unit has gone into monitoring mode, an audible fall alarm is activated.

ONCE IN ALARM MODE, THE FALL DETECTION UNIT SENDS AN ALARM TRANSMISSION (EVERY 18-22 SECONDS – NON PERIODIC TRANSMISSIONS) TO THE MONITORING STATION. THIS MESSAGE IS SENT UNTIL THE FALL ALARM IS RESET.

To reset the fall alarm, hold the Fall Detection Unit tightly and press the Reset button for approximately 5 seconds. The audible alarm is deactivated. The Fall Detection Unit will continue monitoring once there is pressure on the chair / bed mat for more than 15 consecutive seconds.

### **1.3.1. Bypassing the Fall Alarm**

Holding the Fall Detection Unit tightly, press the Reset button for approximately 5 seconds. The fall monitoring is deactivated for approximately 30 seconds. The resident can now get up from the chair or bed without initiating an alarm.

## 2. FCC Notices

This note is applicable to the American FDU-800

**NOTE**

*The FDU-800 complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:*

- (1) This device may not cause harmful interference, and*
- (2) This device must accept any interference received, including interference that may cause undesired operation.*

This device has been tested and found to comply with the limits of the Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to correct the interference by one or more of the following measures

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver.



- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION**

*Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.*

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