myActiveAlert
User Instructions

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Introduction

The myActiveAlert is a personal emergency response pendant manufactured by Mytrex, Inc. that features patented and clinically validated automatic fall detection algorithms developed by BioSensics LLC. Additional key features and benefits of the BioSensics technology include patented algorithms designed to reduce false alarms, monitoring the number of steps taken, and notifying providers when the pendant is not worn by the subscriber. The myActiveAlert also incorporates a water resistant HELP button to request help at the press of a button.

The myActiveAlert may be operated in one of two modes: Basic and Enhanced. In either mode the device may be programmed to transmit a periodic supervisory or heartbeat signal to the Mytrex personal emergency response system (PERS); such as an MXD or MXD3G. This transmission enables the base unit to monitor the radio link, battery condition and activity level of the user.

Detecting a Fall

When the algorithms determine a fall may have occurred, the LED begins to flash slowly. A few seconds later the LED will flash quicker. Within a few seconds the LED will turn on steady and a FALL ALERT signal is transmitted to the PERS. A red LED indicates low battery and green indicates a good battery. During the FALL ALERT signal transmission, the LED will always illuminate steady for approximately two seconds. **Note: Due to the many types of falls that can occur, the user should always press the HELP button whenever help is needed and not rely solely upon the determination of the fall detection algorithms. See "Other Notices".**

Sending a HELP ALERT Signal

To send a HELP ALERT signal to the PERS, press and release the HELP button on the face of the myActiveAlert. The signal for help is transmitted as soon as the button is pressed and will continue to transmit for an additional two seconds after releasing the HELP button. The LED will illuminate for the entire duration of the signal transmission according to Table 1.

Clearing the FALL ALERT

When the algorithms determine a fall may have occurred, the LED begins to flash slowly. While the LED is flashing, the algorithms continue to monitor movement. Transmission of the FALL ALERT signal is prohibited and the LED is turned off if the algorithms determine the user has taken three steps. Once the LED turns on steady, the FALL ALERT signal cannot be cancelled.

Battery Monitoring

The myActiveAlert periodically monitors the internal battery voltage. If the voltage is below a certain threshold, a LOW BATTERY signal is transmitted to the PERS. Once a low battery is reported, the myActiveAlert should be replaced within two weeks.

Button Only Mode

The myActiveAlert is shipped in the Button Only Mode. Movements are not monitored (fall detection disabled) in this mode which greatly extends the battery life. However, pressing the HELP button on the face of the myActiveAlert will cause a HELP ALERT signal to be transmitted. The signal is transmitted for approximately two seconds after the button is released and the LED flashes slowly. Green indicates a good battery and red indicates a low battery.

Basic Mode

This mode of operation includes the functionality of the HELP button, automatic fall detection, battery monitoring, and if desired, supervisory or heartbeat transmissions. To enable the Basic Mode of operation, the HELP button must be pressed 7 times within a 3-second period. Once the Basic mode is enabled, the LED will illuminate steadily when the HELP button is pressed as indicated in Table 1. NOTE: If supervisory (heartbeat) transmissions are enabled, it is important that your dealer activates the supervisory mode in the PERS as well.

Enhanced Mode

This mode includes all of the same functionalities of the basic mode. In addition, the activity of the subscriber (number of steps taken) and non-compliance alert signals (subscriber not wearing the myActiveAlert) may be transmitted to the PERS. To enable the Enhanced Mode of operation, the HELP button must be pressed 5 times within a 3-second period. Once the Enhanced mode is enabled, the LED will flash quickly when the HELP button is pressed as indicated in Table 1. NOTE: If supervisory (heartbeat) transmissions are enabled, it is important that your dealer activates the supervisory mode in the PERS as well.

LEDs

The myActiveAlert has a red and a green LED to indicate various modes of operation as shown in Table 1. The indicated LED status is applicable to both the Basic and Enhanced modes of operation.

Table 1: LED Status definitions

Green	Battery Good	Steady	Basic Mode
		Flash Quickly	Enhanced Mode
Red	Battery Low	Steady	Basic Mode
		Flash Quickly	Enhanced Mode

Battery Life Expectancy

The battery of the myActiveAlert is not replaceable. The life expectancy is variable and is dependent upon which features are enabled and the operating parameters chosen. In addition, the higher the activity level of the subscriber, the lower the battery life expectancy.

Specifications

- Dimension: 2.165" x 1.468" x 0.603"
- RF Transmission Frequency: 418 MHz
- Operating Temperature: -10ºC to 60ºC
- Battery Type: CR2450 Lithium
- Battery Life: 1 year or more (2 years in Basic non-supervised mode)
- Battery Voltage: 3.0V
- FCC ID: NY5MAA01
- IC: 9663A-MAA01

FCC and Industry Canada Notice

- This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). 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.
- Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.
- IMPORTANT! Tous les changements ou modifications pas expressément approuvés par la partie responsable de la conformité ont pu vider l'autorité de l'utilisateur pour actioner cet équipment.

- This equipment has also been tested and found to comply with the limits for a 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 equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment 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 try 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 receiver.
    - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
    - Consult the dealer or an experienced radio/TV technician for help.

- This Class B digital apparatus complies with Canadian ICES-003.
- Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

- **Important:** Changes or modifications to this unit not expressly approved by the responsible party for compliance may void the user's authority to operate the equipment.
- Infrequently used radio links should be tested regularly to protect against undetected interference or fault. The Manufacturer suggests testing at least weekly.
- A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor, dealer, or installer and these facts should be communicated to the ultimate user.

Other Notices

- **This product incorporates BioSensics ActivePERS technology, Protected by US Patents #8,206,325, #9,005,141 and other patents pending (www.biosensices.com/patents).**
- **ActivePERS technology does not detect falls with perfect accuracy or precision. If you need help, you must always push the help button on your wearable device or base unit.**

Battery Warning

This product contains a lithium battery. Lithium batteries can explode, leak, catch fire or cause burns if not handled appropriately. Do not disassemble, puncture or crush battery. Avoid exposure to water, fire or high temperatures. Properly dispose of the myActiveAlert.

GETTING STARTED

1. Press the HELP button on the face of the myActiveAlert 7 times within three seconds.
2. Learn the myActiveAlert into the desired Personal Help Button bank of the MXD or MXD3G (PERS).
3. Place the MXD or MXD3G into Range Test mode and press the HELP button on the face of the myActiveAlert. Listen for a steady tone being emitted from the PERS as the coverage range is tested.
4. Press the RESET button on the rear of the PERS to place it into normal standby mode.