

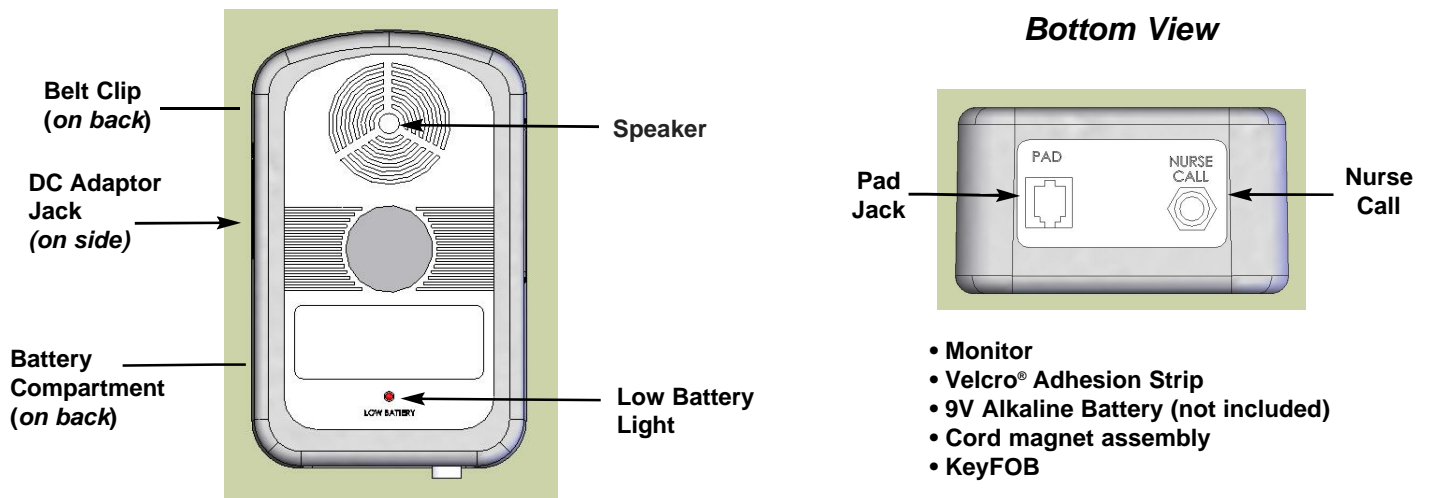
# Micro-Tech<sup>TM</sup>

## User instructions for Micro-Tech<sup>®</sup> Sentinel (81850) and Micro-Tech<sup>®</sup> Sentinel with Voice (81860)

### CAUTION

Before using this product, thoroughly read these instructions along with the WARNINGS and CAUTIONS that follow. Failure to do so may result in injury or death.

The Micro-Tech<sup>®</sup> Sentinel monitor (81850) sounds an alarm when a patient leaves his or her wheelchair, chair or bed. It can also sound a beeping signal and a chime. The Micro-Tech<sup>®</sup> Sentinel with Voice monitor (81860) will also give a warning message in a familiar, pre-recorded voice. Both voice message and alarm are activated when weight is removed from the pressure-sensitive mat that is placed beneath the patient and attached to the monitor. Additionally, both models can be connected to an Alert Button worn on the patient's wrist and to a Nurse Call System.

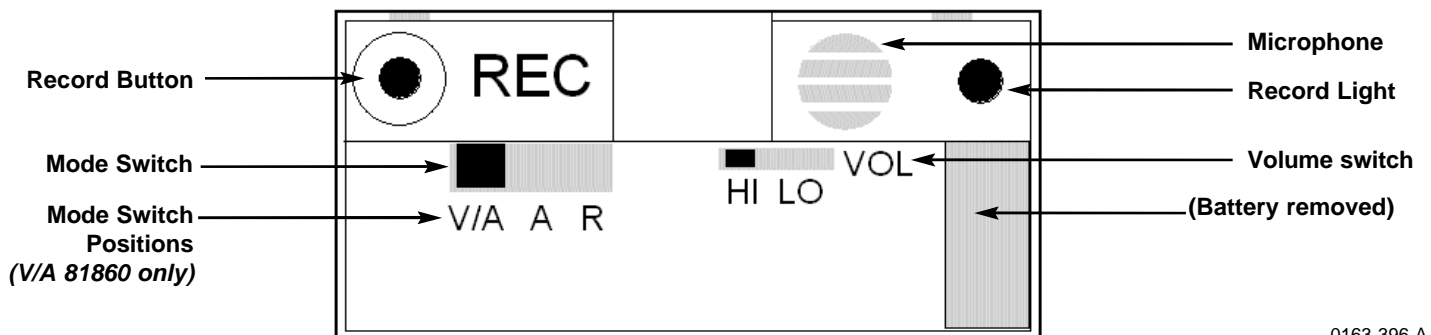


### To install battery

Place thumb on the narrow plastic strip on the battery compartment door on the back of the monitor and push in the direction of the engraved arrow to release the door. Insert a fresh, new 9V alkaline battery into the battery clip inside the compartment, being careful to observe proper battery polarity (positive to positive, negative to negative). When the battery is properly installed, slide the battery compartment door back into place.

NOTE: Optional DC Adaptor (0400-059) may be used instead of a battery. Jack is on left side of monitor.

### Inside the battery compartment



## To record or change a message (Model 81860 only)

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You can record a voice message on the Micro-Tech® Sentinel with Voice monitor. Follow these steps to record or change a message:

1. Slide the ON/OFF/DELAY switch to “on”. Remove the battery cover (see *To install battery* above). Be sure battery is installed.
2. Press the RECORD (REC) button and keep it depressed until you are finished recording your message. Your message can be up to 15 seconds long. (The red record light will be lit while you are pressing the button to show that recording is in progress.)

NOTE: Any previously recorded message will be erased once the REC button is pressed.

3. Hold the monitor 10" to 12" from your mouth and speak slowly and clearly while recording your message.
4. To review the message after recording, either a Micro-Tech® mat must be connected to the appropriate jack on the bottom of the monitor or an Alert Button must be connected to the AUX jack. With a Micro-Tech® mat, apply pressure to the mat, hold for a few seconds, then remove the pressure. You will hear the message, followed by either the alarm or chime signal. With an Alert Button, simply press the Button to hear the message, followed by the Alarm signal. If the message is not clear and easy to understand, record it again by repeating steps 2 and 3.

NOTE: In order for the message to be heard, the Mode switch that extends into the battery compartment must be positioned at the **V/A** setting (1st position).

5. Replace the battery cover.

## The Mode switch

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When you remove the battery from its compartment, you will see a small switch extending into the compartment. This is the Mode switch. This switch has three positions, **V/A**, **A** and **R**. The operation of the Mode switch is explained in the following chart:

Switch Position	When monitor is activated:
<b>V/A (81860 only)</b>	Voice/Alarm: Patient hears voice message, followed by alarm or chime; nurses' station is alerted (if connected)
<b>A</b>	Alarm: Patient hears alarm only; nurses' station is alerted (if connected)
<b>R</b>	Remote: only nurses' station is alerted (if connected, otherwise reverts to local alarm)

## To use the Micro-Tech® Sentinel monitor

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1. Attach the Micro-Tech® Sentinel monitor to a wheelchair, chair or bed using the belt clip or Velcro® adhesion patch provided. (To attach the Velcro® strip to the back of the monitor first unscrew and remove the belt clip. Attach one pad of the Velcro® patch to the back of the monitor and the other piece to a flat, clean mounting surface.)
2. Place the Micro-Tech® mat on the chair or bed so that the bulk of the patient's weight will be resting on it. Plug the end of the mat cable into the MAT jack on the bottom of the monitor. (If using the Alert Button, connect it to the AUX jack.)
3. Set the Off/On switch on the side of the monitor to ON (or to DELAY if you want a few seconds pause before the Voice/Alarm signal sounds). Set the Volume switch to HI or LO (to control alarm volume) or to CHIME.
4. Position the patient on the bed or chair, over the mat. When the patient's weight is placed on the mat, you will hear a brief confirmation tone, which indicates that the mat is in operating mode. If the patient moves from the mat (or presses the Alert Button), he or she hears a previously recorded voice message followed by a warning tone, or just the tone, to remind the patient to sit back down and alert the staff that a patient is at risk of falling. The alarm signal shuts off when the patient returns to the mat. It can also be silenced by sliding the OFF/ON switch to OFF.

NOTE: If the Micro-Tech® mat is disconnected from the MAT jack while in operating mode, the alarm will be activated. To shut off the alarm, just turn the monitor OFF, then ON again to reset.

## If the battery is low

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When the battery is getting low, the LOW BATTERY light will blink and there will be an audible beep every 30 seconds. If the battery is low when the monitor is sounding an alarm, the LOW BATTERY light will blink rapidly. Be sure to check for low battery before every use. Replace the battery as soon as possible after a low battery condition is indicated.

## To connect the Micro-Tech® Sentinel Monitor to an existing Nurse Call System

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Plug one end of the optional Nurse Call System Cable NCC-1 into the 1/4" jack labeled NURSE CALL on the bottom of the monitor, and the other end into the Nurse Call 1/4" system receptacle. When the monitor is activated, the nurses' station will be alerted.

### **WARNING**

Read and follow these warnings and cautions, before using your Micro-Tech® fall prevention monitoring system. Failure to do so may result in injury or death.

Test your Micro-Tech® fall prevention monitor for proper operation before each use and

- inspect the nurse call interface, Micro-Tech® mat and monitor for any signs of damage
- inspect the Velcro® patch for any signs of wear
- listen to the voice message to make sure it is understandable and appropriate (model 81860 only)
- be sure the Low Battery light is not flashing

Magnets may affect pacemakers and implantable cardioverter defibrillators (ICDs) when placed in close proximity to them. Keep this product, which contains magnets, at least 6 inches away from pacemakers and ICDs.

Check for low battery before each use by removing the magnet from the monitor to activate the alarm. Replace the battery immediately with a new 9V alkaline battery if the LOW BATTERY light is flashing.

Use your monitor in conjunction with your facility's fall management program. Micro-Tech® monitors are not a substitute for proper nursing care. The effectiveness of the Micro-Tech® fall prevention monitoring system relies entirely on an immediate response by the caregiver to the monitor alarm.

## **WARNING**

Keep the Micro-Tech® mat cord free of all encumbrances at all times. Place the cord on top rather than under pillows. Do not place items on the bed, chair or monitoring location that may interfere with the cord assembly.

Use the proper length of Micro-Tech® cord. Using a length outside the caregiver's predetermined safety zone may result in injury to a patient.

Only use a Micro-Tech® cord assembly with the Micro-Tech® Sentinel monitor. Any other cord, particularly a cord with higher elasticity, may be unsafe and result in injury to a patient.

The Micro-Tech® Sentinel monitor will not stop a person from leaving a bed, chair, wheelchair or room. It is intended only to alert a caregiver that a person may need assistance. Other interventions may still be required for some people.

The Micro-Tech® Sentinel monitor can be defeated by a cognitively aware person, a person with only a few moments of lucidity or an uncooperative person. Properly assess each individual before the Micro-Tech® Sentinel monitor is used.

To mount the monitor, use only the belt clip or Velcro® patch that comes with your shipment, the optional Velcro® strap kit (0707-585), or the Universal Mounting Bracket (0707-578). Nonconforming fasteners may hinder the device's effectiveness.

If the nurse call interface is being used, be sure the Nurse Call Cable (0707-569), is plugged into the nurse call system before each use of the Micro-Tech® Sentinel monitor. If the cable is unplugged and the monitor's local alarm is off, the unit will not operate.

## **CAUTION**

Use care when connecting or disconnecting the Micro-Tech® Sentinel monitor to the nurse call system. Gently remove or connect plugs. Pulling on the cord may damage it and result in system failure.

Do not open the Micro-Tech® Sentinel case for any reason, or remove the screws that hold the case together. The case is sealed and if the seal is broken, the warranty will be voided. Call Micro-Tech® Customer Service if your Micro-Tech® Sentinel monitor requires service.

## Warranty and disclaimer

**WARRANTY AND DISCLAIMER:** Micro-Tech® products are warranted by Micro-Tech to be free of manufacturing defects for a period of one year from the date of purchase. If any defects covered by this Warranty appear within the above stated one year period, Micro-Tech will, at its option, repair or replace the defective component on an exchange basis with new or rebuilt parts at its expense, without charge for parts or labor, upon delivery of such product to Micro-Tech, at buyers expense. EXCEPTION: MICRO-TECH MATS AND OTHER ACCESSORY PRODUCTS ARE WARRANTED TO BE FREE OF MANUFACTURING DEFECTS FOR PERIODS RANGING FROM 30 DAYS TO ONE YEAR AS SPECIFIED TO BUYER Micro-Tech is not responsible for warranty service should the Micro-Tech label or logo or the serial number be removed or should the Micro-Tech product fail to be properly maintained or fail to function properly as a result of misuse, abuse, neglect, improper shipping or installation, incorrect wiring not our own, damage caused by disasters, such as fire, flood, and lightning, damage caused by faulty or leaking batteries not supplied by Micro-Tech, service other than by Micro-Tech or units in use in violation of instructions furnished by Micro-Tech. Postage, insurance, or shipping costs incurred in presenting your Micro-Tech product for warranty service are your responsibility.

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FCC COMPLIANCE: This device 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.

FOR CANADIAN CUSTOMERS: "This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled 'Digital Apparatus', ICES-003 of Industry Canada."

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