SECURE

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U.S. Patent No.
9,466,204

WIRELESS® PATIENT MONITORING SYSTEM

- **Wireless Alarm Monitor – Model No. WAM-1R**
- **Wireless Alarm Transmitter – Model No. WAT-1R**
- **Wireless Bed Sensor Pad (12" x 30") – Model No. WBEDPAD-1**
- **Wireless Bed Sensor Pad (24" x 30") – Model No. WBEDPAD-3**
- **Wireless Chair Sensor Pad (12" x 12") – WCHAIRPAD-1**
- **Wireless Floor Mat Sensor (One Year) – WMAT-1**

Made in PRC • One Year Warranty

Quick Setup

1. Insert 3 AA batteries into Wireless Alarm Monitor (WAM-1R) & 2 AAA batteries into Wireless Transmitter (WAT-1R).
2. Press and hold the Wireless Alarm Monitor "SYNC" button. The red light will turn on indicating sync mode is active. Sync mode will remain active for 10 seconds.
3. Press Wireless Transmitter SYNC button. Red light turns on and Wireless Alarm Monitor beeps once. Up to 3 Wireless Transmitters can be synced during the 10 seconds that sync mode is active.
4. Both red lights will turn off. Monitor & Transmitter are now synced. Always test the system before each use.
5. Check the position of the Mute switch on the base of the Wireless Alarm Monitor next to the Nurse Call receptacle. If you want the monitor to sound in the patient room, set the Mute switch to the "Off" position. If you DO NOT want the monitor to sound in the room, set the Mute switch to the "On" position. **Important: WAM-1R alarm monitor Mute switch should only be set to "On" position when connected to a nurse call interface using the optional NCI-1 nurse call adapter. Set Mute switch to "Off" position to enable alarm sound.**

WARNING: Changes or modifications to this product that are not authorized by the manufacturer may void FCC compliance and negate the user's authority to operate this product.

Note: This equipment has 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:
1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

System Overview

The Secure® Wireless Patient Monitoring System advanced falls management alarm monitor technology by employing the most dependable 2.4GHz bi-directional wireless communication between the sensor pad wireless transmitter and wireless alarm monitor receiver. This completely wireless patient monitoring solution eliminates tripping hazards caused by cords and enables caregivers to remotely monitor fall risk patients, residents and loved ones in order to prevent falls and wandering.

When the patient gets up from the bed or chair sensor pad the wireless alarm monitor is triggered, immediately alerting the caregiver of unsafe egress. The wireless alarm monitor will automatically reset when the patient returns to the bed or chair. The caregiver can quickly reset the wireless alarm monitor by pressing the "RESET / TEST" button. When using the wireless floor mat sensor, the wireless alarm monitor will continue to alarm until the "RESET / TEST" button is pressed.

The wireless alarm monitor "PAUSE" feature allows the caregiver to temporarily disable the alarm monitor in order to care for the patient without setting off the alarm. Simply press and hold the "RESET / TEST" button for 5 seconds to enable the alarm pause feature. When the patient returns to the bed or chair sensor, the wireless alarm monitor will automatically enter monitoring mode. The reset button can also be pressed once to manually enter monitoring mode. When using a floor mat sensor, the "RESET / TEST" button must be pressed to enter monitoring mode after using the pause feature.

The wireless alarm monitor integrates with existing in-wall nurse call systems to alert nursing staff throughout a facility (Optional NCI-1 Nurse Call Cable required). When connected to an existing nurse call system the alarm sound may be left on, or muted to eliminate in-room alarm noise and provide a more comfortable environment for the patient.

Simultaneously sync up to three wireless transmitters with the wireless alarm monitor for fall risk patient protection using multiple bed, chair or floor mat sensors.

The Wireless Alarm Monitor and Wireless Transmitter communicate every 5 minutes to confirm both remain safely synced. If the monitor and transmitter lose connection the third LED light on wireless alarm monitor will flash continuously, and the alarm will sound continuously indicating that the system must be re-synced.

Note: Always keep the WAT-1R Alarm Transmitter on/off switch in the "on" position whenever batteries are installed in the WAM-1R Alarm Monitor. This will maintain the unique

bi-directional connectivity of the WAM-1R and WAT-1R and prevent unwanted alarm sound due to a lost connection.
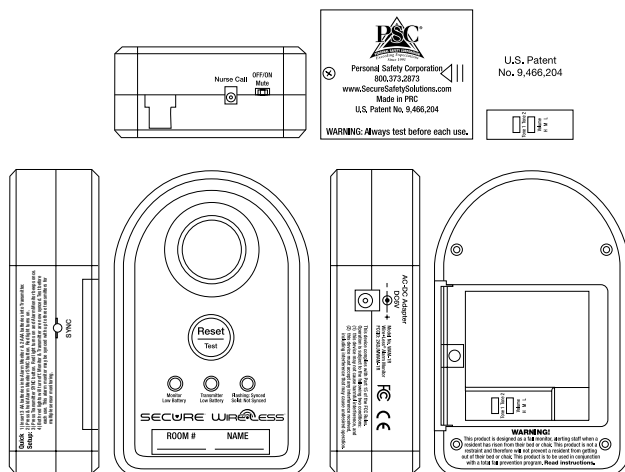
For safety reasons, the WAM-1R has been designed to communicate with the WAT-1R every 5 minutes to ensure that the system is synced. If the WAM-1R and WAT-1R become unsynced, the WAM-1R will alarm and flash. If the WAT-1R is turned off or its batteries removed, the WAM-1R will alarm and flash. Therefore, it is necessary to remove the batteries from the WAM-1R when the WAT-1R is turned off or the batteries removed.

If batteries are left installed in the WAM-1R while the WAT-1R is turned off or batteries removed, the lost connection alarm will sound until the WAM-1R batteries are removed or the WAT-1R is turned on. Remove all batteries when not in use.

Setup Instructions
(Call 800-3-Secure for Setup Help)
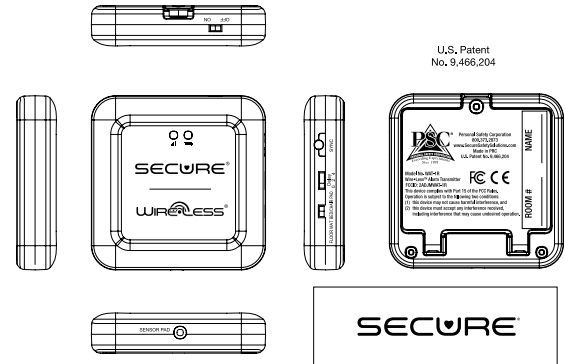**1. Wire•Less® Alarm Monitor – Battery Installation & Settings**

- Remove WAM-1R from protective holder
- Fully loosen battery cover screw with included screwdriver
- Open battery cover by sliding in a downward motion
- Insert 3 AA batteries (included) into the battery compartment ensuring correct polarity
- Select desired volume level using "H M L" toggle switch located in battery compartment (H = high, M = medium, L = low)
- Select desired alarm tone using "Tone 1 Tone 2" toggle switch located in battery compartment
- Close the battery cover and fully tighten Phillips-head screw
- Place the monitor in protective holder

2. Wireless Alarm Transmitter (WAT-1R) – Install batteries & Adjust Settings
- To access transmitter battery compartment, remove safety screw on the back of the transmitter using the included screwdriver.
- Insert 2 AAA batteries (included) into the battery compartment ensuring correct polarity.

- Close battery compartment and reinsert safety screw.
- Using a pen or other pointed instrument, turn on the transmitter by switching the "OFF / ON" toggle switch to the "On" position.

- Using a pen or other pointed instrument, choose the correct position of the "Mat / Pad" toggle switch:
  - **Mat** – Choose this setting when using the WMAT-1 Wireless Floor Mat Sensor
  - **Pad** – Choose this setting when using the WBEDPAD-1 Wireless Bed Sensor or WCHAIRPAD-1 Wireless Chair Sensor Pad
- Using a pen or other pointed instrument, set the alarm delay switch to the desired setting:
  - **0** – no alarm delay, alarm will sound immediately
  - **2** – Alarm will sound two seconds after patient leaves the bed or chair sensor
  - **4** – Alarm will sound four seconds after patient leaves the bed or chair sensor

Note: the alarm delay switch should always be set to "0" when the Wireless Floor Mat Sensor (Model No. WMAT-1) is in use. There should be no alarm delay when the patient steps on the floor mat sensor. The 2 & 4 second delay switch settings are useful when monitoring a patient that tends to move in the bed. The alarm delay will help prevent false alarms.

3. Sync Wireless Alarm Monitor (Model No/ WAM-1R) with up to three Wireless Transmitters (Model No. WAT-1R)
- Press & hold the "SYNC" button located on right side of Wireless Alarm Monitor. The red LED light will turn on indicating that the monitor is in Sync mode.
- Press Wireless Transmitter "SYNC" button. The red LED light on transmitter will illuminate and the Wireless Alarm Monitor will make a "beep" sound to confirm successful syncing.
- Both red LED lights on WAM-1R & WAT-1R will turn off. The monitor & transmitter are now synced.
- Plug wireless bed/chair sensor or wireless floor mat sensor into the Wireless Transmitter "Sensor Pad" input.
- Always test system before each use.
- Repeat these steps to sync up to three Wireless Transmitters with the Wireless Alarm Monitor for multiple unit monitoring.

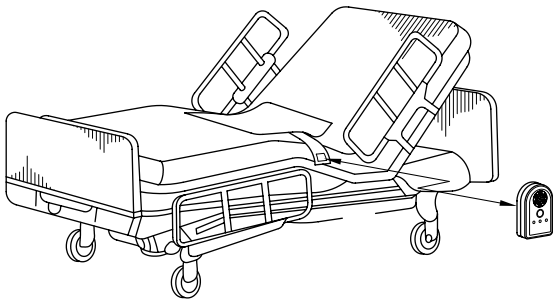4. **Testing Wireless Patient Monitoring System Operation**
    To test system, press down on the sensor pad with the palm of your hand. The monitor will beep to indicate it is active. After removing pressure from the sensor pad, the monitor will immediately begin to alarm. Press the reset button once to silence the alarm sound and put the system into standby mode.

Instructions for Use

The WAM-1R alarm, WAT-1R transmitter and sensor pad being used should be checked prior to each use to ensure all are functioning properly. The "Test/Reset" button on WAM-1R also functions as a battery tester.
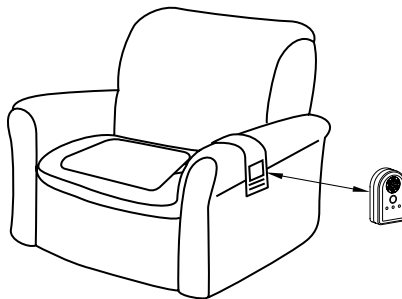
Bed Sensor Pad Placement

Place Wireless Bed Sensor Pad (WBEDPAD-1) widthwise across bed on top of mattress. The sensor pad must be positioned on the mattress to be directly under buttocks or shoulder of user. When placed under shoulders, the alarm will activate when patient sits up in bed. When placed under the buttocks, the alarm will activate when the patient vacates the bed. Place side of pad with movement resistant cushions down against mattress top. Mattress cover sheets should be placed over the sensor. The WAT-1R sensor pad pocket should hang over side of bed.

Chair Sensor Pad Placement

Place Wireless Chair Sensor Pad (WCHAIRPAD-1) in center of chair or wheelchair seat directly under buttocks of user. If a chair cushion is used sensor pad must be placed on top of chair cushion directly under buttocks of user. The WAT-1 sensor pad pocket should hang over side of chair.

Low Battery Indicator Function - WAM-1R & WAT-1R

1. **WAM-1R Wireless Alarm Monitor**
    • WAM-1R Wireless Alarm Monitor
    • Low battery indication for WAM-1R monitor
     - WAM-1R monitor will emit an audible beep sound alert when batteries are low
     - "Monitor Low Battery" blue LED indicator will flash periodically

• Low battery indication for WAT-1R Wireless Transmitter
  - WAM-1R monitor will emit an audible beep sound alert
  - "Transmitter Low Battery" yellow LED indicator will flash periodically when Wireless Transmitter batteries are low

2. **WAT-1R Wireless Transmitter**
    • Yellow LED will flash three (3) times every 30 seconds indicating that the WAT-1R Wireless Transmitter is sending the low battery signal to the WAM-1R Wireless Alarm Monitor. Monitor blue LED light will flash periodically confirming the transmitter low battery signal.

Sensor Pad Cleaning Instructions

Use the same cleaning method used to clean vinyl mattress covers. A damp, non-abrasive cloth may be used to wipe sensor pads and floor mat. All cleaning products suitable for vinyl may be used to wipe bed/chair sensor pads.

Water and Incontinent Proof

The Wireless Sensor pads have been specially designed to be water and incontinent proof. If sensor is exposed to extreme heat, punctured or torn it will no longer be water and incontinent proof and should no longer be used under any circumstance.

Warning: Do not immerse sensor pads in water for any reason. Doing so will void warranty.

Troubleshooting

1. Install new batteries in both the WAM-1R and WAT-1R. If using optional WAM-1R AC power adapter, verify that it is properly plugged in to both the WAM-1R and the wall.
2. Make sure WAM-1R and WAT-1R are properly SYNCED. (See Step 3 of Setup Instructions)
3. Determine WAT-1R is working:
    a. Confirm that the ON/OFF switch is in the ON position.
    b. Confirm that the sensor pad or floor mat is plugged into the WAT-1R.
4. Determine WAM-1R is working:
    a. Hold the "Reset" button on the front of the WAM-1R for a few seconds; all LED lights will turn on and it will emit a tone sound.
5. Determine which component is at fault:
    a. Use a known working WAT-1R/WAM-1R set and connect the potentially faulty sensor pad to test functionality. If the set does not function properly, the sensor pad is faulty and should be replaced.
    b. Take a known working sensor pad and connect the potentially faulty WAT-1R/WAM-1R – if the system does not function properly, the WAT-1R or WAM-1R are faulty and should be replaced

Technical Specifications

Wireless Alarm Monitor (WAM-1R)

Power: 3x AA Alkaline Batteries (included) and DC6V 1A (optional AC adapter)
Wireless Operating Frequency: 2.4G
Wireless Technology: GFSK RF module
Visual Alert: Monitor low bat. LED, WAT-1R low bat. LED, alarm LED and sync LED indication
Audible Alarm: Tone and dB level adjustability
Housing: Gray ABS plastic
Dimensions: 135mm x 85mm x 41mm; 138mm x 91mm x 46mm (with plastic holder)

Wireless Alarm Transmitter (WAT-1R)

Power: 2x AAA Alkaline Batteries (included)
Wireless Operating Frequency: 2.4G
Wireless Technology: GFSK RF module
Visual Indicator: WAT-1R low bat LED and transmit LED indication
Housing: Gray ABS plastic
Dimensions: 70mm x 70mm x 15mm

12 Month Limited Warranty

Personal Safety Corporation warrants this product to be free from factory defects in materials and workmanship for a period of 12 months from the date on the product. Void if this product is misused, abused or punctured. No warranty or responsibility of use expressed or implied.

IMPORTANT: The Secure® Wireless Patient Monitoring System operates using wireless RF technology which is subject to physical and environmental considerations. The system must always be tested by the end user before each use in the setting in which they are to be used. It is important to consider that the operating distance of the monitor and transmitter is limited depending on the environment factors such as walls, appliances, etc. Both the monitor and transmitter are battery operated and the life of the batteries may vary based on usage.

CAUTION!

This product is designed as a monitor, alerting the staff when a patient has risen from their bed or chair. This product is not a retraint and therefore will not prevent a patient from getting out of their bed or chair. This product is to be used in conjunction with a total fall prevention program.

DO NOT ASSUME!

This product must be tested each time it is used with a patient to make sure it functions properly.

Please see our complete line of Secure® fall/wandering prevention & patient safety products at www.SecureSafetySolutions.com
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