SECURE® SAFETY SOLUTIONS
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U.S. Patent No.
9,466,204

WIRE•LESS® PATIENT MONITORING SYSTEM

- **Wire•Less® Alarm Monitor – Model No. WAM-1**
- **Wire•Less® Alarm Transmitter – Model No. WAT-1**
- **Wire•Less® Bed Sensor Pad (One Year) – Model No. BEDPAD-1W**
- **Wire•Less® Chair Sensor Pad (One Year) – CHAIRPAD-1W**
- **Wire•Less® Floor Mat Sensor (One Year) – MAT-1W**

Made in PRC • One Year Warranty

Quick Setup

1. Insert 3 AA batteries into Alarm Monitor (WAM-1) & 2 AAA batteries into Transmitter (WAT-1).
2. Press & hold Alarm Monitor SYNC button. Red light turns on. Sync mode will remain active for 10 seconds.
3. Press Transmitter SYNC button. Red light turns on and Alarm Monitor beeps once.
4. Both red lights will turn off. Monitor & Transmitter are now synced. Test before each use.
5. Sync up to three Transmitters (WAT-1) with Alarm Monitor (WAM-1) when multiple bed, chair, or floor mat sensors are needed. All Transmitters must be synced within 10 seconds of sync mode activation.
6. Please check the position of the Mute switch on the base of the monitor next to the Nurse Call receptacle. If you want the Monitor to sound in the room please set the Mute switch to the "Off" position. If you DO NOT want the monitor to sound in the room please set the Mute switch to the "On" position. **Important: WAM-1 patient monitor Mute switch should only be set to "On" position when patient monitor is connected to nurse call interface using the optional nurse call cable adapter (Model No. NCI-1). 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® Wire•Less® Patient Monitoring System takes fall management patient alarms to the next level by eliminating tripping hazards, taking the alarm sound out of the patient room, and employing the most advanced, continuous 2.4G bi-directional wireless communication that ensures secure communication between the Wire•Less® Alarm Monitor (WAM-1) and Wire•Less® Alarm Transmitter (WAT-1) housed in the pocket of a Secure® bed or chair sensor pad or floor mat sensor.

When a patient gets off the monitoring pad housing the transmitter, the transmitter will instantly send a wireless signal to the monitor without a dangerous delay that is found in other patient monitors. The monitor will then send a confirmation signal to the transmitter to stop the transmitter signal conserving battery life.

The monitor will automatically reset once the patient gets back on the bed/chair sensor pad. Alternatively, the monitor can be reset by pressing the reset button located on the front of the monitor. When using a floor mat sensor, the monitor will continue to alarm until the reset button is pressed.

Monitor can be synced with up to three transmitters, allowing a single alarm monitor to wirelessly connect with and monitor up to three Secure® bed/chair sensor pads, floor mat sensors, and wheelchair seat belt sensor.

The monitor may be connected to a standard nurse call system using the optional Nurse Call Cable accessory (NCI-1). When connected to a nurse call system, the monitor alarm sound may be left on or muted to eliminate in-room alarm noise. The Monitor will activate the nurse call system to alert the nurses' station of unsafe patient egress.

When in standby, the monitor and transmitter communicate every 5 minutes to confirm both remain synced. If the monitor and transmitter become unpaired the 3rd LED light on the front of monitor will flash continuously and the alarm will sound continuously indicating the system is not functioning properly.

Note: Always keep the WAT-1 Alarm Transmitter on/off switch in the "on" position whenever batteries are installed in the WAM-1 Alarm Monitor. This will maintain the unique bi-directional connectivity of the WAM-1 and WAT-1 and prevent unwanted alarm sound due to a lost connection.

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For safety reasons, the WAM-1 has been designed to wirelessly communicate with the WAT-1 every 2.5 minutes to ensure that the system is synced. If the WAM-1 and WAT-1 become un-synced for whatever reason, the WAM-1 will alarm and flash. If the WAT-1 is turned off or its batteries removed, the WAM-1 will alarm and flash. Therefore, it is necessary to remove the batteries from the WAM-1 when the WAT-1 is turned off or batteries removed.

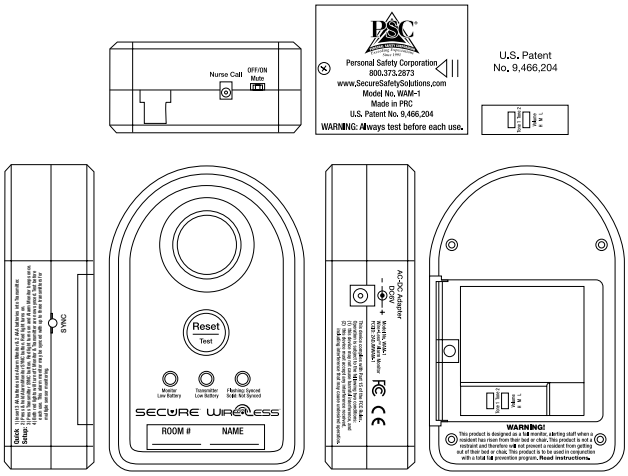
If batteries are left installed in the WAM-1 while the WAT-1 is turned off or batteries removed, the lost connection alarm will continue to sound indicating that the WAM-1 is unable to sync with the WAT-1.

Removing all batteries will conserve battery life when the system is not in use.

Setup Instructions

(Call 800-3-Secure for Setup Help)

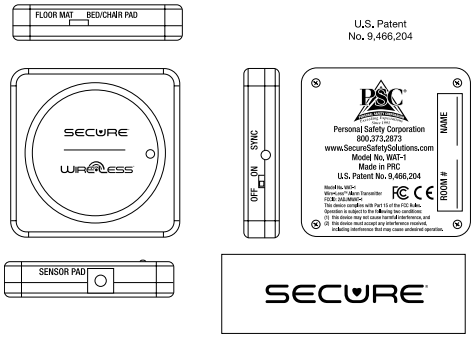
1. Wire•Less® Alarm Monitor (WAM-1) – Install Batteries& Set Volume/Tone



- Remove WAM-1 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. Wire•Less® Alarm Transmitter (WAT-1) – Install batteries & Adjust Settings

- To access WAT-1 battery compartment, remove case back by fully loosening the four (4) Phillips-head screws using the included screwdriver
- Insert 2 AAA batteries (included) into the battery compartment ensuring correct polarity
- Attach case back and fully tighten four (4) Philips-head screws
- Using a pen or other pointed instrument, turn on the WAT-1 by switching the “OFF ON” toggle switch to “On” position



- Using a pen or other pointed instrument, choose the correct position of the “Mat Pad” toggle switch (Mat = Floor Mat Sensor, Pad= Bed/Chair/Toilet Sensor Pad)

3. Sync/Pair WAM-1 and up to three WAT-1, Plug-in Sensor Pad or Floor Mat

- Press & hold WAM-1 “SYNC” button located on right side of monitor. The red LED light will turn on indicating that the monitor is in Sync mode.
- Press WAT-1“SYNC” button. The WAT-1 red LED light will turn on and WAM-1will sound an audible beep.
- Both red LED lights on WAM-1 & WAT-1 will turn off. The monitor & transmitter are now synced.
- Plug bed/chair sensor pad or floor mat sensor into the WAT-1 “PAD PLUG”
- Always test system before each use.
- Repeat steps to sync up to three Transmitters (WAT-1) with Alarm Monitor (WAM-1) when multiple bed, chair, or floor mat sensors are needed.

4. Testing Wire•Less® 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.

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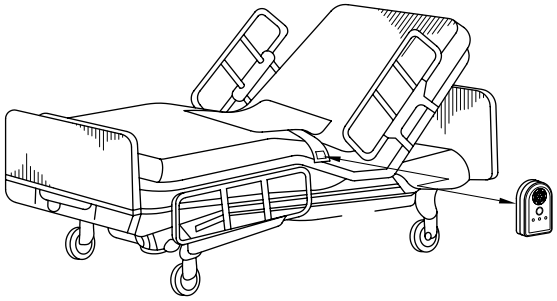
Instructions for Use

The WAM-1 alarm, WAT-1 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-1 also functions as a battery tester.

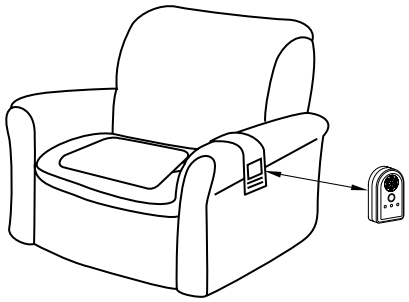
Bed Sensor Pad Placement

Place Wire•Less® Bed Sensor Pad (BEDPAD-1W) 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-1 sensor pad pocket should hang over side of bed.



Chair Sensor Pad Placement

Place Wire•Less® Chair Sensor Pad (CHAIRPAD-1W) 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-1 & WAT-1

1. WAM-1 Monitor

- Low battery indication for WAM-1 monitor
  - WAM-1 monitor will emit an audible beep sound alert
  - "Monitor Low Battery" blue LED indicator will flash periodically
- Low battery indication for WAT-1 transmitter
  - WAM-1 monitor will emit an audible beep sound alert
  - "Transmitter Low Battery" yellow LED indicator will flash periodically

2. WAT-1 Transmitter

- Yellow LED will flash three (3) times every 30 seconds indicating that the WAT-1 transmitter is sending the low battery signal to the WAM-1 monitor. WAM-1 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 Wire•Less® 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-1 and WAT-1. If using optional WAM-1 AC power adapter, verify that it is properly plugged in to both the WAM-1 and the wall.
2. Make sure WAM-1 and WAT-1 are properly SYNCED. (See Step 3 of Setup Instructions)
3. Determine WAT-1 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-1
4. Determine WAM-1 is working:
   a. Hold the "Reset" button on the front of the WAM-1 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-1/WAM-1 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-1/WAM-1 – if the system does not function properly, the WAT-1 or WAM-1 are faulty and should be replaced

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Technical Specifications

Wire•Less® Alarm Monitor (WAM-1)

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-1 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)

Wire•Less® Alarm Transmitter (WAT-1)

Power: 2x AAA Alkaline Batteries (included)
Wireless Operating Frequency: 2.4G
Wireless Technology: GFSK RF module
Visual Indicator: WAT-1 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® Wire•Less® 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.