

# RN+ FALLWatch II™

## WIRELESS SYSTEM

# User's Guide

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# INTRODUCTION

**Take a look at how the dedicated RN+ FALLWatch II Wireless System helps you reduce patient falls and injuries.**

## 1 MOVEMENT DETECTION



### WIRELESS SIGNAL UNIT

When a monitored patient attempts to leave a bed or wheelchair without assistance, the **patient movement** is detected by a Nurse Assist Sensor Pad (sold separately) plugged into the RN+ FALLWatch Wireless II Signal Unit.

## 2 DEDICATED SIGNAL NOTIFICATION



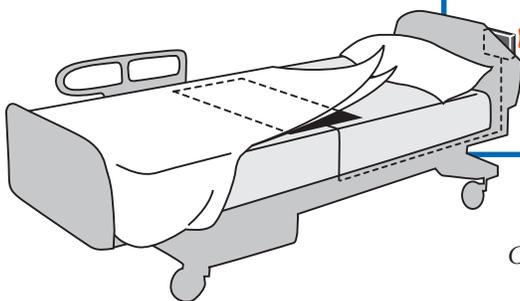
### WIRELESS CONSOLE

The dedicated RN+ FALLWatch II Wireless Console located at the nurse's station receives the wireless **signal notification** from the signal unit. The nursing staff is notified with a clear audible alarm and a number is shown on the digital display corresponding to the listed patient recorded on the console board.

## 3 CAREGIVER RESPONSE



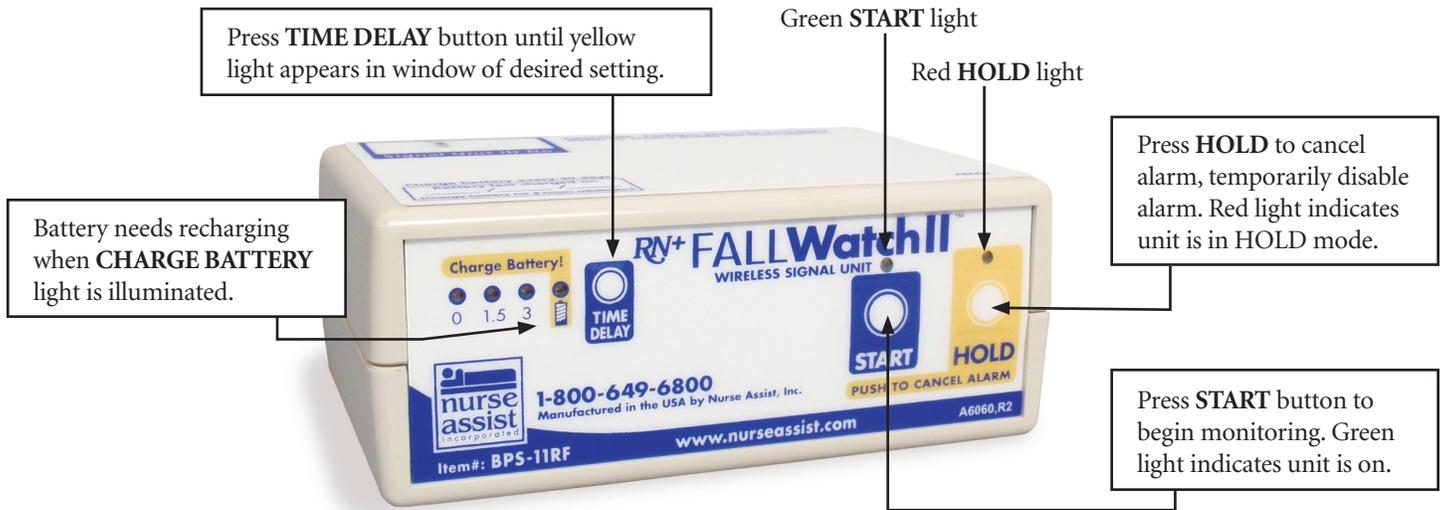
In only seconds, a **caregiver response** can aid the individual in this critical moment and greatly reduce the possibility of a fall.



**A Nurse Assist sensor pad detects when a patient/resident is attempting to exit the bed or chair, and the FALLWatch II Signal Unit sends a wireless signal to the dedicated FALLWatch II Console at the nurse's station.**

*Not all patients or residents are the same. That's why Nurse Assist offers the industry's largest variety of sensor pads. Caregivers can consider factors such as the specific individual's needs, environment and condition to choose the right sensor pad for optimum fall management.*

# WIRELESS SIGNAL UNIT FEATURES



## START BUTTON

A Sensor Pad must be plugged into the back of the Signal Unit before the START button will activate the unit. Press the START button to begin monitoring. A green light will appear indicating the Signal Unit is actively monitoring.

## HOLD BUTTON

To activate the HOLD mode, press the Hold button. A red light will illuminate indicating the Signal Unit is in HOLD mode. The HOLD mode turns off the Signal Unit alarm at patient's side and cancels the Console alarm and numeric display.

The HOLD mode can continue indefinitely as long as weight is off the Sensor Pad. Once the patient's weight is returned to the pad, the Signal Unit will automatically remove from HOLD mode and resume monitoring.

To remove Signal Unit from the HOLD mode, simply press the START button.

## TIME DELAY SETTING

The Signal Unit has three different time delay settings. Select the time delay setting by pressing the TIME DELAY button.

- 0 seconds** Recommended for wheelchair monitoring or for immediate signal notification.
- 1.5 seconds** Allows for some patient movement, weight shifting, stretching, etc. without activating alarm.
- 3 seconds** Allows for more patient movement and may reduce frequent false alarms in active patients.

## SIGNAL UNIT ALARM TONE

Four alarm tones are available to differentiate from other alarms within a facility. To select different tones, press and hold the HOLD button and press the TIME DELAY button to hear and select the desired tone. Please note that a silent tone is the fourth tone option and can be used when no sound is desired from the Signal Unit.

## CHARGE BATTERY LIGHT

The CHARGE BATTERY light will illuminate when the Signal Unit battery needs to be recharged. See page 8 for recharging instructions. The Signal Unit will chirp intermittently 24 hours prior to dead battery.

# WIRELESS SIGNAL UNIT FEATURES (continued)

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## **VOLUME CONTROL**

The Signal Unit has three volume settings. The volume control is located on the back of the Signal Unit. Simply select the volume level desired. If the silent tone option is selected from the four featured alarm tones, no alarm sound will be heard with any volume setting.

## **NURSE CALL PLUG**

The Signal Unit can be interfaced with the facility's nurse call system. A nurse call cord may be purchased to complete the connection. The jack for the nurse call cord is located on the back of the Signal Unit. If your nurse call system requires a specific type of plug, please contact your nurse call vendor.

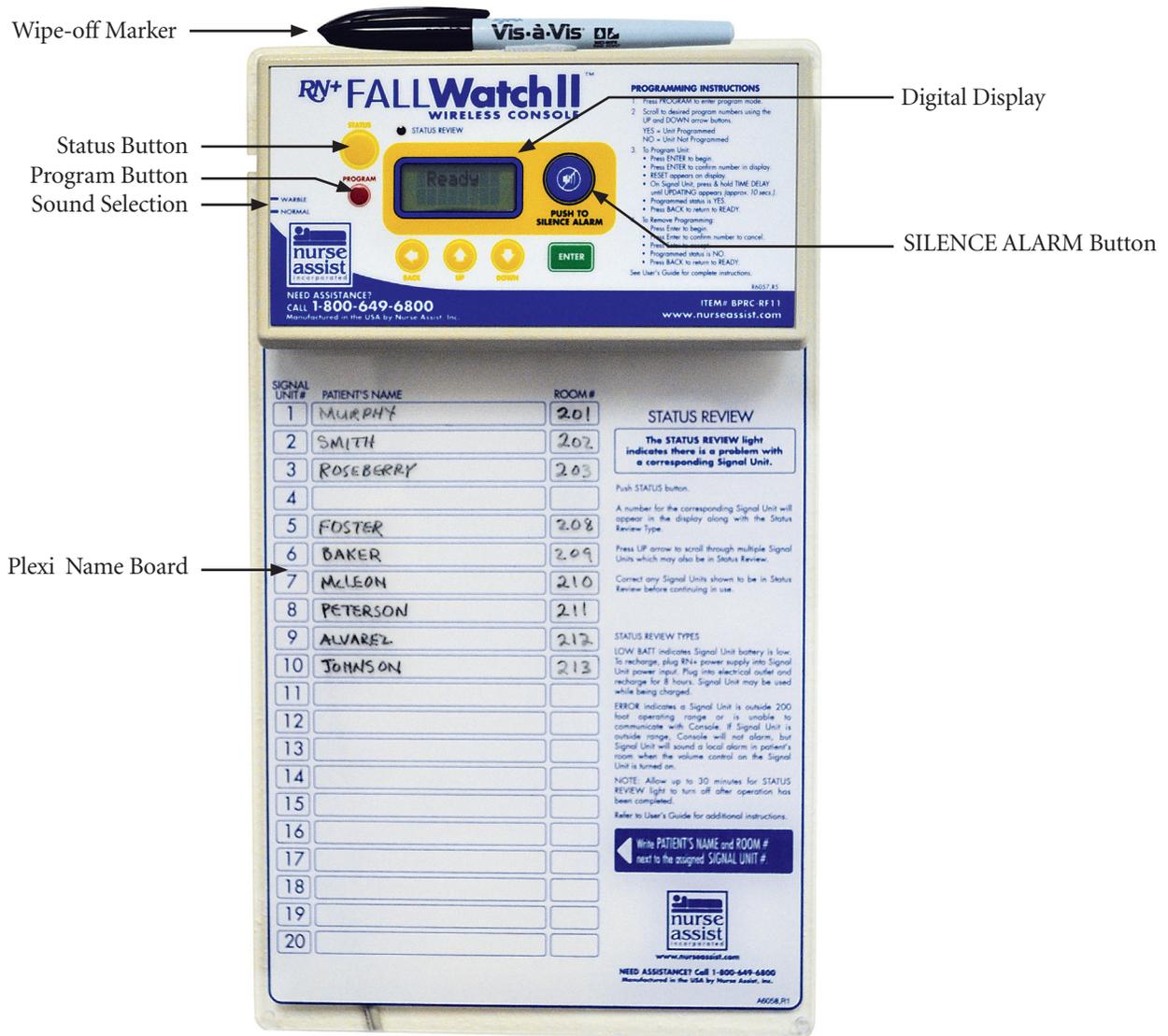
## **POWER SOURCE**

Signal Units are powered with a 9 V rechargeable battery which allows the Signal Unit to be used for either bed or chair monitoring. A 120 V AC battery charger is included and can be used as a continuous source of power from any wall outlet. For instruction on recharging the battery, see page 9.

## **SENSOR PAD PORT**

The port where the Sensor Pad can be plugged in is located on the back of the Signal Unit. A Sensor Pad must be plugged in for monitoring to begin.

# WIRELESS CONSOLE FEATURES



## SILENCE ALARM BUTTON

Cancels alarm at Console only – not at Signal Unit location. When the Console alarm sounds, respond immediately to the reported Signal Unit shown in the Digital Display. The alarm will resume in 1 minute if not cleared.

## DIGITAL DISPLAY

When monitored bed or chair exit occurs, the Digital Display shows the number corresponding to the patient or resident listed on the Plexi Name Board below.

## STATUS REVIEW LIGHT

The Status Review Light alerts staff when one or more Signal Units installed in the system reports low battery or is out of the 200 foot operating range. To check, press the STATUS button and note the number shown in the display. Use the Up arrow to scroll through additional Signal Units in Status Review. LOW BATT indicates low battery. ERROR indicates unit is out of range. See STATUS REVIEW TYPES printed on Plexi Name Board.

# SYSTEM SET-UP & PROGRAMMING

## STEP 1: MOUNT CONSOLE

Mount the Console to the wall or to a central location (most commonly at the nurse's station) where it can be clearly seen and the alarm can be heard. It will need to be easily accessible to nursing staff and near an available standard 120 V AC outlet. The Console should be mounted at least 2 feet from other electronic equipment. After mounting, plug the Console in and run the power cord behind the Plexi Name Board.

## STEP 2: FILL IN PLEXI NAME BOARD

For each individual to be monitored, use the Wipe-off Marker and write in the patient's name and room number in the numbered spaces provided on the Plexi Name Board.

## STEP 3: PROGRAMMING SIGNAL UNITS

Next, program each Signal Unit to the number of the patient listed on the Plexi Name Board.

NOTE: EACH SIGNAL UNIT IN OPERATION MUST BE PROGRAMMED TO THE RECEIVING CONSOLE TO RECEIVE THE WIRELESS SIGNAL.

1. Press PROGRAM to enter program mode.
2. Scroll to desired program numbers using the UP and DOWN arrow buttons.  
YES = Unit Programmed  
NO = Unit Not Programmed
3. To Program Unit:
  - Press ENTER to begin.
  - Press ENTER to confirm number in display.
  - RESET appears on display.
  - On Signal Unit, press & hold TIME DELAY until UPDATING appears (approx. 10 secs.).
  - Programmed status is YES.
  - Press BACK to return to READY.
4. To Remove Programming:
  - Press ENTER to begin.
  - Press ENTER to confirm number to cancel.
  - Press ENTER to accept.
  - Programmed status is NO.
  - Press BACK to return to READY.



5. Perform **SYSTEM CHECK** to ensure all three components of the FALLWatch™ II System (Console, Signal Unit and Sensor Pad) are **functioning properly**. See page 7 for more on how and when to perform the SYSTEM CHECK.

# PERFORMING THE SYSTEM CHECK

**IMPORTANT:** Follow the System Check instructions for EVERY Signal Unit installed and reprogrammed, from EVERY patient location and for EVERY Sensor Pad in use.

The System Check should be performed to determine:

1. Each Signal Unit has been correctly programmed into the Console
2. Each Signal Unit is within operating range
3. Each Sensor Pad functions properly

## SYSTEM CHECK INSTRUCTIONS:

*NOTE: The Console must be plugged in and the Signal Unit must be charged in order to perform the System Check.*

1. **Lay Sensor Pad on a flat surface and plug into the back of the Signal Unit.** When the Sensor Pad is plugged in, both the Console and the Signal Unit will alarm because no weight is on the pad.
2. **Check the Console's digital display to verify the number shown matches the Signal Unit number being tested.** If the digital display shows the number "04" when the alarm sounds, check to make sure it is Signal Unit #4 you are testing. If the number shown in the digital display does not match the Signal Unit number you are testing, refer back to "System Set-Up & Programming" on page 7.
3. **Apply pressure to the Sensor Pad.** When pressure is applied to the Sensor Pad, the alarm at both the Console and the Signal Unit will cease. Remove pressure from the Sensor Pad once again to sound the alarm. When the alarm sounds once pressure is removed from the Sensor Pad, the system is working properly.
4. **Check from patient location to verify the system is within operating range.** The operating range is 200 feet. Always make sure each monitored patient or resident is within the operating range by performing this System Check at the point of use.
5. **Press the Signal Unit HOLD button and disconnect the Sensor Pad.** The digital display and the program lights will disappear.



*Check the Sensor Pad and Signal Unit by applying pressure to the Sensor Pad with your hand. When you lift your hand and remove pressure from the Sensor Pad, the alarm will sound.*

## RESPONDING TO AN ALARM

- 1 **When an alarm sounds, note the activated Signal Unit number in the Console's digital display.** The dedicated alarm of the RN+ FALLWatch™ II is easily recognized by the nursing staff when a patient has removed pressure from a Sensor Pad and could possibly fall without immediate nursing assistance. Avoiding any confusion with the regular nurse call system, nursing staff can see what number is showing in the Console and the patient name and room number listed on the Plexi Name Board.
- 2 **Press the SILENCE ALARM button on the Console and proceed to patient location.** This will not silence the alarm from the Signal Unit at the patient location – only the Console alarm at the nurse's station. **Provide immediate patient assistance.** Alarm will resume in 1 minute.
- 3 **Stabilize the patient.** Upon reaching the patient in need, provide assistance to the patient to prevent a fall according to your facility's fall management program. By returning the patient to the Sensor Pad, the alarm will cease. If the patient must leave the monitored position, press the HOLD button to silence the alarm at the Signal Unit.
- 4 **Return patient to monitored position and press START on the Signal Unit.** This will resume patient monitoring.



# SIGNAL UNIT BATTERY CHARGING

The RN+ FALLWatch™ II Wireless Signal Unit uses a rechargeable battery. Built-in features to the wireless system are designed to advise when the battery requires attention.

1. **The Console STATUS REVIEW light is illuminated.** The STATUS REVIEW light will illuminate when there is approximately one week of battery life remaining. Perform a Battery Check following the STATUS REVIEW instructions printed on the Plexi Name Board to identify Signal Units needing a battery recharged.
2. **The Signal Unit red CHARGE BATTERY light is illuminated.** Approximately one week of battery life remaining. Charge battery soon.
3. **The Signal Unit makes intermittent “chirping” sound.** Intermittent chirping indicates less than 24 hours of remaining battery life. Charge battery immediately. *Note: The “chirping” sound is not audible when the Signal Unit silent tone option is selected from the four featured alarm tones.*

## HOW TO RECHARGE THE BATTERY:

Simply plug the Signal Unit into an electrical outlet with the provided 120 V AC adapter. The Signal Unit may still be used while the battery recharges. A full recharge requires eight hours. Leaving the Signal Unit plugged in continuously could reduce overall battery life.

## SIGNAL UNIT BATTERY REPLACEMENT INSTRUCTIONS:

Rechargeable batteries may need to be replaced occasionally if the battery charge expires quickly after being charged for a full eight hours. Replacement battery packs are available by calling Customer Service at 1-800-649-6800 or visiting our Web site at [www.nurseassist.com](http://www.nurseassist.com).



1. Remove two housing screws from the bottom of Signal Unit. The bottom side of the Signal Unit has Velcro® attached.
2. Holding the bottom firmly, pull top housing away from bottom. Front and rear panels should remain with the bottom.
3. Disconnect battery at white connector.
4. Slide old battery out of the battery holder.
5. Discard battery in accordance with local regulations. Protect the environment.
6. Slide new battery into foam battery holder and position the same as the old battery.
7. Connect battery wires to battery connection cable going to the printed circuit board.
8. The lights on the front panel should operate normally. If not, it may be necessary to charge the battery for eight hours prior to use.
9. Reassemble unit with two screws being careful that the battery wires are clear of the top and bottom housing.

# REPAIRS AND ASSISTANCE

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For assistance by phone, please call Customer Service at 1-800-649-6800.

For assistance by E-mail, send to [info@nurseassist.com](mailto:info@nurseassist.com).

## 3-YEAR WARRANTY:

The RN+ FALLWatch II Wireless Console and Signal Units are covered by a 3-year warranty. Nurse Assist Sensor Pads are warranted for the stated duty life of the individual pad ranging from 10 days to 1 year.

## REPAIRS:

All products sent in for repairs must be assigned a Returned Goods Authorization number (RGA#) in order to be accepted. Additional information may be required. Call Customer Service at 1-800-649-6800 to request an RGA#.

## RETURNS:

All products returned must be assigned a Returned Goods Authorization number (RGA#) in order to be accepted. Additional information may be required. Call Customer Service at 1-800-649-6800 to request an RGA#. Returned products must be in original, unopened packaging.

### Return Credit:

0-3 months	75% credit
4-6 months	50% credit
6+ months	0% credit

Moisture may damage electrical equipment. Do not submerge or spray liquids directly onto equipment. Wipe down with damp cloth for best results.

**Return to:**  
**NURSE ASSIST, INC.**  
**3400 NORTHERN CROSS BLVD.**  
**FORT WORTH, TX 76137**

### *Biohazard Policy*

Nurse Assist will be unable to receive, process or repair any equipment returned with evidence of biohazardous contamination. To avoid delays in receiving, please clean equipment with sterilizing solvent prior to returning product.

### *DISCLAIMER:*

NURSE ASSIST FALL MANAGEMENT SOLUTIONS WILL NOT PREVENT FALLS AND INJURIES FROM BED OR CHAIR EXITS. THESE SUPPLEMENTARY SYSTEMS ARE USEFUL TOOLS IN ALERTING NURSES/CAREGIVERS TO THE POSSIBILITY OF SUCH OCCURRENCES. NURSE ASSIST FALL MANAGEMENT SOLUTIONS ARE DESIGNED TO BE A PART OF A FACILITY'S COMPREHENSIVE FALL MANAGEMENT PROGRAM. USE ONLY NURSE ASSIST APPROVED PRODUCTS WITH THIS SYSTEM.

# SPECIFICATIONS

## **RN+ FALLWatch II Wireless Signal Unit:** ITEM # BPS-11RF

Size:	4.5" x 3" x 1.75"	Weight:	9.6 oz.
Frequency:	902-928 MHz	Range:	200 feet average
Grounding Resistance:	Greater than 40 MegaOhms	Leakage Current:	0uA, leads 0uA
Certification:	FDA 510K Exempt Class 1 Device	Decibel Rating:	83 db at 12"
External Power Source:	12 V DC Transformer		
DC Transformer Input:	120 V AC, 60 Hz 40W		
DC Transformer Output:	12 V DC 400 mA		
9V Internal Power Source:	6 AAA Ni-MH 1.2 cells, 550 mAh		

## **RN+ FALLWatch Wireless Signal Unit is powered by a 9V rechargeable nickel-metal hydride battery pack.**

Battery Run Time:	30 days	Battery Recharge Time:	8 hour minimum
Battery Life:	1 year average		

NOTE: All values are approximate and will vary depending on user applications, alarm frequency and battery age. If batteries experience significantly shorter run times, longer recharge times and more frequent recharging, replace rechargeable battery pack.

## **RN+ FALLWatch II Wireless Console:** ITEM #BPRC-RF11

Console Size:	7.5" x 4" x 1.625"	Panel Size:	8" x 14.25"
Weight:	1.15 lbs.	Decibel Rating:	83 db at 12"
Power Input:	120 V AC, 60 Hz 40W	Power Output:	12 V DC, 400 mA
Consumption:	135 mA	Frequency:	902-928 MHz
Warranty:	3 years	Certification:	FDA 510K Exempt Class 1 Device
Receiver Type:	Frequency Hopping Spread Spectrum		

## **Radio Frequency Specifications:**

The specially designed radio used in the RN+ FALLWatch II Wireless System is certified under Part 15 of FCC regulations as a low power communications device. A high speed format is implemented to reduce clash from other transmitters, as well as minimize potential for interference due to other services. A proprietary modulation technique is used to reduce potential for interference to and from other systems sharing the same operating band. The low duty cycle technique makes efficient use of power to extend battery life.

Band Operation:	902-928 MHz (Can be customized for international bandwidth requirements.)
Receiver Type:	Frequency Hopping Spread Spectrum FCC Approved

### Radio Frequency 902-928 MHz Alert:

This system operates in 900 MHz spread spectrum bandwidth. Most other wireless devices are unaffected by this frequency. Cordless phones and pagers typically do not impact performance of this system. Perform SYSTEM CHECK (page 7 ) prior to placing equipment into service and to check for interference.