



















## Interfacing with the Nurse Call System

The Classic-Check® can be set for a normally open or normally closed nurse call system. The unit is factory preset to function with a normally open system.

The Control Unit uses a standard, two conductor, 1/4 inch diameter phone plug, the most common type of nurse call connection. If your nurse call system does not provide a compatible input, contact Bed-Check® or your biomedical department to obtain the appropriate adapter.

If your facility does not have a biomedical department, please contact Bed-Check® at the phone number listed on the back of this user guide. If requesting information on interfacing the Control Unit to a nurse call system, please have the following information available:

- The brand of your nurse call system.
- A description of the system's call cord or pillow speaker, including the type of plug and number of pins in the plug.
- Whether your nurse call system is normally open or normally closed.
- If this information is not available, you may still contact us for assistance, and we will be glad to help you.

The Classic-Check (72021) is supplied with a 1/4" receptacle/jack (which may be used in lieu of a common Y-Adaptor) to accept a common 1/4" mono plug from any other equipment in use in the patient's room. This receptacle/jack is located in the housing for the 1/4" mono plug supplied on the end of the 72021 nurse call cord.

However, common 1/4" mono plugs from other equipment in the patient's room are not all exactly alike. Therefore:

### **WARNING**

**TEST THIS CONNECTION BEFORE USE TO VERIFY THAT THE 1/4" PLUG ON THE OTHER EQUIPMENT IS FULLY COMPATIBLE WITH THE 1/4" RECEPTACLE IN THE 72021 AND THAT THE EQUIPMENT'S TEST CALL IS SUCCESSFULLY RECEIVED BY YOUR NURSE CALL SYSTEM.**

**IF THE TEST CALL IS NOT SUCCESSFUL, DO NOT USE THIS INCOMPATIBLE RECEPTACLE IN THE 72021 WITH THAT EQUIPMENT.**

# Possible Internal Set-up Instructions

(only if connecting to a nurse call system)

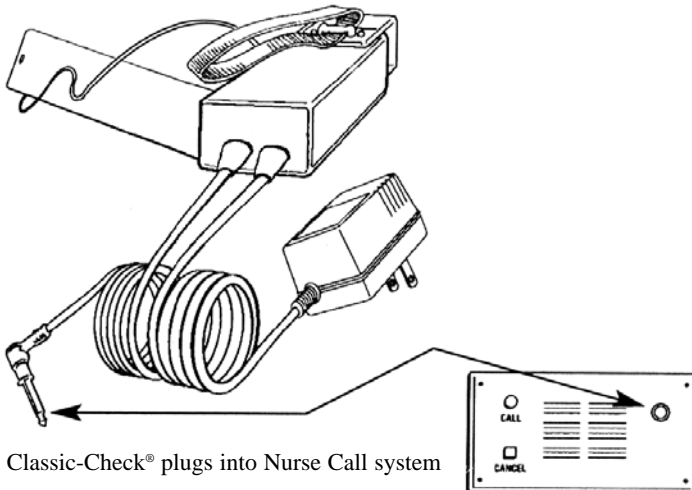
1. Determine if your nurse call system is a normally closed or normally open system (consult your BioMed). The Classic-Check® Unit is factory set for a normally open system unless otherwise specified.
2. If your system is normally open, or if your Classic-Check® Unit was ordered to be specifically compatible with your system, skip the rest of this section. Continue on to the section entitled *How to Use the System* on page 4.

## **▲WARNING**

**Danger of electrical shock. Unplug unit before servicing.**

NOTE: The following steps (3 Thru 8) should be accomplished only by your BioMed Department or Bed-Check®.

3. With the Classic-Check® Unit unplugged, remove the 4 screws from the back of the case.
4. Remove splash guard and the back cover.
5. At JP1 remove jumper.
6. Re-install the jumper on pins 2 & 3 for normally closed (1 & 2 is for normally open).
7. Reinstall the 4 screws. The round-headed screws fit the splash shield, and the countersunk screws secure the bottom of the case. Do not over-tighten.



# System Operation

The Classic-Check® Unit is factory set for a 3 second delay, day mode, “Low pitch warble” alarm tone, maximum day volume and minimum night volume.

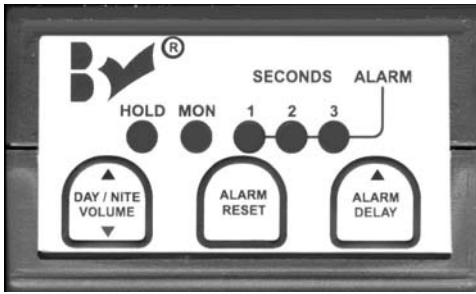
1. Power up the Classic-Check® Unit by plugging the power cord into a standard (120 VAC) outlet. The unit will respond by giving a short two beep "Hello" signal.
2. If connecting to a nurse call system, plug the Classic-Check® Unit nurse call cord into the system. The Classic-Check® Unit will function whether or not connected to a nurse call system.
3. The yellow **HOLD** light and **SECONDS ALARM** lights will illuminate. The Classic-Check® Unit powers up in idle **HOLD**, with a steady yellow **HOLD** light and the red lights indicating the delay setting of 1, 2 or 3 seconds. This is the best time to make operational parameter changes, since the patient is not yet on the mat. See the section entitled *Changing Operational Parameters* on page 10 for more information.
4. If you have not already done so, install the Sensormat® on the bed or chair, and plug its cord into the Classic-Check® Unit. The yellow **HOLD** light should **not** blink either alone or with the delay lights. If it does, replace the Sensormat®.
5. The Classic-Check® Unit will stay in idle **HOLD** (steady yellow) until further action is taken.
6. If weight is sensed on the Sensormat®, the Classic-Check® Unit will go to short **HOLD** (blinking yellow) for 5 seconds. During those 5 seconds, if weight is again removed, the Classic-Check® Unit will revert to idle **HOLD** (steady yellow). If weight is still sensed after 5 seconds, the Classic-Check® Unit automatically begins to **MON**itor (green, blinking). This reduces false alarms while relocating a patient, but also allows for automatic monitoring that cannot be "forgotten" (no activate switch has to be pressed).
7. In the **MON**itoring mode, proper operation is indicated by the green **MON** light, which will blink off briefly, once per second.

8. When pressure (weight) is removed from the Sensormat® (patient begins to exit the bed or chair), the Classic-Check® Unit begins the delay countdown. Once the countdown starts, weight back on the Sensormat® will stop the countdown and **MON**itoring will resume. This reduces false alarms. However, once the alarm starts, it can only be silenced by pressing **RESET**. Weight back on the Sensormat® will stop countdown/resume **MON**itoring, but will not silence an alarm once that alarm has started. This is important for patient safety, and provides good feedback to the caregiver about patient agitation.
9. Pushing **RESET** while either **MON**itoring (before removing the patient) or when silencing an alarm puts the Classic-Check® Unit into a 25 sec temporary **HOLD** (blinking yellow).
  - a. At 25 seconds, if weight is sensed on the Sensormat®, the Classic-Check® Unit automatically resumes **MON**itoring. If weight is not sensed on the Sensormat®, the Classic-Check® Unit goes to idle **HOLD** (steady yellow).
  - b. Any time during the 25-second temporary hold period, **MON**itoring can be resumed without waiting by pressing **RESET**, as long as there is weight sensed on the Sensormat®.
10. Any time the Classic-Check® Unit is in the idle **HOLD** (steady yellow), if weight is again sensed on the Sensormat®, The Classic-Check® Unit will go to short **HOLD** (5 seconds).
  - a. At 5 seconds, if weight is sensed on the Sensormat®, the Classic-Check® Unit automatically resumes **MON**itoring. If weight is not sensed on the Sensormat®, the Classic-Check® Unit reverts to idle **HOLD** (steady yellow).
  - b. The 5-second period may be bypassed and **MON**itoring is resumed without waiting by pressing **RESET** at any time, as long as weight is sensed on the Sensormat®.

### Summary:

- The Classic-Check® Unit will only start the delay countdown/alarm sequence when in the **MON**itor mode and weight is removed from the Sensormat®.
- In any **HOLD** mode, the Classic-Check® Unit will not alarm. It will either remain in **HOLD** or automatically begin **MON**itoring when weight is again sensed on the Sensormat® (after the described time period).

# Changing Operational Parameters



Front Panel of Classic-Check®

## Day/Night Mode Setting

The Classic-Check® Unit has a blue light in the clear splash shield that illuminates in the NITE mode. In addition, you may pre-set the alarm volumes separately for **DAY** and **NITE** modes. (See the section entitled *Volume Settings*.) Press the **DAY/NITE VOLUME** button to select the mode desired. The blue light indicates **NITE** mode. (To bypass this feature and use the blue light to locate unit or verify power, set **DAY/NITE** volumes the same and select **NITE**.)

## Delay Setting

When the Classic-Check® Unit is **MON**itoring (green light), **ALARM DELAY** is the time from pressure off the Sensormat® until the alarm begins. The **ALARM DELAY** may be set for 1, 2 or 3 seconds by pressing the **ALARM DELAY** button and observing the red LEDs. **ALARM DELAY** may be reset at any time when the Classic-Check® Unit is not in 5 second hold, countdown or alarm. One second is strongly recommended if monitoring a patient in a bedside chair or wheelchair, since he/she is poised to get up. 2 or 3 seconds are usually better for bed patients. Shorter delays may increase alarm frequency for restless bed patients, but may be necessary for “fast exit” patients.

## Alarm Tone Settings

(If you do not wish to change the tone setting, skip to the *Volume Settings* section).

There are ten available alarm tone settings. Six of them are songs, to provide a sound distinctly different from other equipment in the vicinity. The programmed songs have been selected for their non-threatening nature, while maintaining alarm effectiveness. The tone selected will be the alarm in both **DAY** and **NITE** modes, although volumes may be set separately.

1. To hear the current alarm tone setting,
  - a. Press and hold RESET.
  - b. Press and release ALARM DELAY.
  - c. Release RESET.

You will hear the current tone setting. Silence by pressing RESET. Note that the volume may be wrong at this point, but it is best to set volume after the tone has been selected. Alarm tones are always played at lowest volume during alarm tone selection regardless of Day/Nite or volume settings.

- d. If this is the tone desired, press RESET once more, skip the rest of this section, and proceed to VOLUME SETTINGS.

2. To change the tone setting,
  - a. Press and hold RESET.
  - b. Press and hold ALARM DELAY.
  - c. Release RESET.
  - d. Continue holding ALARM DELAY and press/release RESET until the desired alarm tone is reached. Each press/release of RESET advances the tone one step. If at the end of the list, the sequence will start over at 1.
  - e. For a visual indication of what setting you're on, observe the 1 green and 3 red LEDs in a row.

<u>Setting</u>	<u>○ = off ● = on</u>	<u>Tone</u>
1	○○○●	Low pitch warble
2	○○●○	High pitch warble
3	○○●●	Triple tone
4	○●○○	Old McDonald Had a Farm
5	○●○●	Mary Had a Little Lamb
6	○●●○	The Farmer in the Dell
7	○●●●	She'll Be Comin' 'Round the Mountain
8	●○○○	Tom, Tom, the Piper's Son
9	●○○●	Folk Song
10	●○●○	DoReMiFaSoLaTiDo

- f. When the desired alarm tone has been reached, release all buttons. Press/release **RESET** once to silence and lock the tone.

## Volume Settings

Since each alarm tone is different, you may wish to change the volume setting whenever the alarm tone selection is changed. You may also choose to set different volumes for **DAY** and **NITE** modes.

For any selected alarm tone, there are 7 selectable volumes each for **DAY** and **NITE** modes. (You may wish to have a quieter or louder volume at night than during the day.)

1. First select **DAY** mode (blue light off) or **NITE** mode (blue light on) by pressing the **DAY/NITE** button on the left.
2. To hear the current volume in that mode,
  - a. Press and hold **RESET**.
  - b. Press and release **DAY/NITE VOLUME**.
  - c. Release **RESET**.

You will hear the current volume and tone setting. Silence by pressing **RESET**.

3. To change the volume setting,
  - a. Press and hold **RESET**.
  - b. Press and hold **DAY/NITE VOLUME**.
  - c. Release **RESET**.
  - d. Continue holding **DAY/NITE VOLUME** and press/release **RESET** until desired volume is reached. Each press/release of the **RESET** advances volume one step. If it is at max (7), the sequence will start over at 1.
  - e. For a visual indication of what setting you're on, observe the 3 red LEDs.

<u>Setting</u>	<u>○ = off ● = on</u>	<u>Sound Level (approx)</u>
1	○○●	67db
2	○●○	73db
3	○●●	77db
4	●○○	80db
5	●○●	81db
6	●●○	83db
7	●●●	85db

- f. When desired volume is reached, release all buttons. Press/release **RESET** once more to silence and lock in the volume. The Classic-Check® Unit's settings will remain unchanged during power interruptions. If you wish to change the volume setting in the other mode (Day or Nite), go back to step 1, change the mode, and repeat the process.

# Troubleshooting

## **WARNING**

**Test the system's operations daily. Failure to do so could result in injury or death.**

### **Problem: No alarm - Patient out of bed**

#### **Check:**

1. Are you using the Bed-Check® Sensormat® or another manufacturer's mat? A defective mat or a mat provided by a different manufacturer will generally cause the Control Unit to alarm when it is plugged into the unit and power is on.
2. Did the patient get up during the preset HOLD period?
3. Is the Sensormat® bent through misplacement or handling? Is it functional? Try another Sensormat®.
4. Is there an object putting pressure on the Sensormat® simulating the patient's weight?
5. Is there power to the unit? (Note that if it is connected to the nurse call system and power to the unit is interrupted, the unit will alarm the nurse call system.)

### **Problem: Control Unit alarms during set up**

#### **Check:**

1. Is the connector between the Sensormat® and Control Unit snapped in properly?
2. Has the cord been pulled from the Sensormat® or its connector?
3. Is the mat a Bed-Check® Sensormat®?

### **Problem: Alarm triggered - Patient in bed**

#### **Check:**

1. Did the patient get up and return to the bed upon hearing the alarm?
2. Is the mat a Bed-Check® Sensormat®?
3. Is the Sensormat® placed beneath the patient's buttocks, or if used behind the back, is the patient of sufficient weight and the bed properly adjusted?
4. Has the Sensormat® slipped toward the end of the bed because the rubber bands and clips were not used to secure the Sensormat® into position beneath the patient's buttocks?
5. Is the connector between the Sensormat® and Control Unit snapped in properly?
6. Is the time delay set too low for the patient's level of activity?
7. If the patient weighs less than 100 pounds, has the system been tested with that patient?
8. Has the Sensormat® cord been pulled out or damaged (check moving bed parts)?



## **Problem: Room alarm triggered - No call at nursing station**

**-or-**

### **Nurse call will not turn off after an alarm**

#### **Check:**

1. Is the nurse call plug firmly connected to the patient station or adapter?
2. Is the call cord or pillow speaker firmly connected to the patient station or adapter?
3. Is the adapter firmly connected to the patient station?
4. Was the Control Unit reset after an alarm before the nurse call system alarm was canceled?
5. Has the nurse call adapter been tested for proper functioning?
6. Is the mat a Bed-Check® Sensormat®?
7. If the control unit is not set to the proper nurse call system configuration (N.O. or N.C.), the unit will alarm the nurse call system as soon as power is applied to the unit.

### Care and Maintenance

#### **▲WARNING**

**Danger of electrical shock. Unplug before servicing. Never immerse the power supply or Control Unit in any liquid.**

#### **▲CAUTION**

**The Bed-Check® Control Unit may not be effective with another manufacturer's sensing device, the use of which may cause intermittent and unreliable operation resulting in injury or death. It may also damage the Bed-Check® Control Unit and will void the Bed-Check® warranty.**

If maintenance or opening of the Control Unit is required, it should be performed in a static-controlled (free) environment by qualified personnel.

The Control Unit and the Sensormat® may be cleaned with a damp cloth or sponge using mild disinfectants. Never use alcohol, acidic or harsh petroleum based cleaners. If absolutely essential, the unit may be gas sterilized up to 120° F.

Bed-Check®  
(800) 523-7956

Please call Bed-Check® immediately if you experience problems.

**LIMITED WARRANTY:  
BED-CHECK® CONTROL UNITS**

**1. WARRANTOR:**

This Limited Warranty is given by Stanley Security Solutions, Inc., doing business at Lincoln, NE 68503.

**2. DURATION:**

This Limited Warranty begins on the date the product is delivered to the purchaser and continues for a period of two years (new units) or one year (refurbished units).

**3. TO WHOM THIS LIMITED WARRANTY IS GIVEN:**

This Limited Warranty is given to the original purchaser of Bed-Check's® products only.

**4. PRODUCTS COVERED:**

This Limited Warranty covers all Bed-Check® Control Units. (i.e. Model Vr, Classic-Check, Chair-Check II, and Basic-Check)

**5. WHAT IS COVERED UNDER THIS LIMITED WARRANTY:**

Defects in material and workmanship which occur within the defined duration of this limited warranty.

Warrantor makes no other warranties expressed or implied, including without limitation, warrantor makes no warranty as to merchantability or fitness for a particular purpose.

**6. WHAT IS NOT COVERED UNDER THIS LIMITED WARRANTY:**

- a) ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF THE CONTROL UNITS.
- b) ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM USE OF THE CONTROL UNITS WITH ANOTHER MANUFACTURER'S PRESSURE SENSITIVE MAT, SENSING DEVICE, OR OTHER FALL PREVENTION PRODUCT.

**NOTE: SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.**

- c) Any defects or damage to the Control Units that may result from use of the Control Units with another manufacturer's parts, pressure sensitive mat, sensing device, or other fall prevention product.
- d) Any failure that results from an accident, purchaser's abuse, neglect or failure to operate the Control Units in accordance with the instructions provided in the owner's manual(s) supplied with the Control Units.
- e) Any Control Units which have the serial numbers altered, defaced or removed.
- f) Any Control Units which have been altered or modified in any way without the express written consent of Bed-Check®.
- g) Any Control Units which have been repaired other than by Bed-Check®.

**7. RESPONSIBILITIES OF WARRANTOR UNDER THIS LIMITED WARRANTY:**

- a) In the event of a defect, malfunction, or other failure of the product not caused by any misuse or damage to the product while in the possession of purchaser, the warrantor will remedy the failure or defect without charge to the purchaser within a reasonable time. The remedy will consist of repair or replacement of the product, or refund of the purchase price, at the warrantor's option. If the product is no longer available, warrantor will supply purchaser with a comparable product or refund the purchase price at warrantor's option. However, the warrantor will not elect refund unless it is unable to provide replacement, and repair is not commercially practicable and cannot be made within a reasonable time, or unless the purchaser is willing to accept such refund. b) If this product or one of its component parts contains a defect or malfunction, after a reasonable number of attempts by the warrantor to remedy the defects or malfunctions, the purchaser will be entitled to either a refund or replacement of the product or its component part or parts. Replacement of a component part includes its free installation.

**8. RESPONSIBILITIES OF THE PURCHASER UNDER THIS LIMITED WARRANTY:**

- a) Disinfect the Control Unit, if necessary, so that it is reasonably free from infectious matter.
- b) Package the Control Unit with a minimum of two inches of shock absorbent packaging material. Deliver or ship the Control Unit to Stanley Security Solutions, Lincoln, NE 68503. Freight costs, if any, must be borne by the purchaser.
- c) Use the Control Unit with reasonable care and in accordance with the supplied owner's manual.

**THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.**

# LIMITED WARRANTY

## BED-CHECK® SENSORMATS®

### 1. WARRANTOR:

This Limited Warranty is given by Stanley Security Solutions, Inc., Lincoln, NE 68503.

### 2. DURATION:

This Limited Warranty begins on the date the product is delivered to the purchaser and continues for a period of one year or for the duration of the warranty stated on the Sensormat® label from the date first installed, whichever comes first.

### 3. TO WHOM THIS LIMITED WARRANTY IS GIVEN:

This Limited Warranty is given to the original purchaser of Bed-Check's® products only.

### 4. PRODUCTS COVERED:

This Limited Warranty covers all Bed-Check® Sensormats®.

### 5. WHAT IS COVERED UNDER THIS LIMITED WARRANTY:

Defects in material and workmanship which occur within the period described in paragraph 2. Warrantor makes no other warranties expressed or implied, including without limitation, warrantor makes no warranty as to merchantability or fitness for a particular purpose.

### 6. WHAT IS NOT COVERED UNDER THIS LIMITED WARRANTY:

a) ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF THE SENSORMAT® ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM USE OF THE SENSORMAT® WITH ANOTHER MANUFACTURER'S CONTROL UNIT OR OTHER FALL PREVENTION PRODUCT.

**NOTE: SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.**

b) Any defects or damage to the Sensormat® that may result from use of the Sensormat® with another manufacturer's parts, control unit, or other fall prevention product.

c) Any failure that results from an accident, purchaser's abuse, neglect or failure to operate the Sensormat® in accordance with the instructions provided on the Sensormat® label.

d) Any Sensormat® which has the serial numbers altered, defaced or removed.

e) Any Sensormat® which has been altered or modified in any way without the express written consent of Bed-Check®.

f) Any Sensormat® which has been repaired other than by Bed-Check®.

### 7. RESPONSIBILITIES OF WARRANTOR UNDER THIS LIMITED WARRANTY:

a) In the event of a defect, malfunction, or other failure of the product not caused by any misuse or damage to the product while in the possession of purchaser, the warrantor will remedy the failure or defect without charge to the purchaser within a reasonable time. The remedy will consist of repair or replacement of the product, or refund of the purchase price, at the warrantor's option. If the product is no longer available, warrantor will supply purchaser with a comparable product or refund the purchase price at warrantor's option. However, the warrantor will not elect refund unless it is unable to provide replacement, and repair is not commercially practicable and cannot be made within a reasonable time, or unless the purchaser is willing to accept such refund.

b) If this product or one of its component parts contains a defect or malfunction, after a reasonable number of attempts by the warrantor to remedy the defects or malfunctions, the purchaser will be entitled to either a refund or replacement of the product or its component part or parts. Replacement of a component part includes its free installation.

### 8. RESPONSIBILITIES OF THE PURCHASER UNDER THIS LIMITED WARRANTY:

a) Disinfect the Sensormat®, if necessary, so that it is reasonably free from infectious matter.

b) Package the Sensormat® unfolded and in a flat position. Deliver or ship the Sensormat® to Stanley Security Solutions, Inc. Lincoln, NE 68503. Freight costs, if any, must be borne by the purchaser.

c) Use the Sensormat® with reasonable care and in accordance with the supplied owner's manual.

**THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.**



**Mailing Address: PO Box 80238, Lincoln, NE 68501-0238**

**1-800-523-7956**  
**[www.bedcheck.com](http://www.bedcheck.com)**



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