



General User/Safety Guide

GUARDIAN - WIRELESS FALLS ALARM SYSTEM

Wireless Falls Alarm System



www.harvesthealthcare.co.uk



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FOREWORD

Dear Customer,

The team at Harvest Healthcare would like to thank you for the confidence you have placed in the Guardian Wireless Falls Alarm System.

With your decision to buy this falls alarm system from Harvest Healthcare, you have a product with a high degree of functionality and the highest level of safety.

When you accept delivery of Guardian, the responsibility for proper use according to the purpose intended passes to you.

This instruction manual informs you as the operator and your users about the functions and safe operation of the Guardian on a daily basis. Please keep the instruction manual available for staff at all times.

We are confident that this product will play an important role in care giving.

Yours sincerely,

Harvest Healthcare Team

INTENDED PURPOSE



READ THIS INSTRUCTION MANUAL AND OBSERVE SAFETY INSTRUCTIONS.

USE FOR THE PURPOSE INTENDED (APPLICATION ENVIRONMENT)

The Guardian is a wireless falls alarm monitoring system which can be paired with up to 8 wireless transmitters (HJM341).

These can be used with a variety of Harvest Healthcare sensor mats and cables to work on floors, chairs and beds.

The Guardian is intended for use in residential homes, nursing homes and for care in the home and should only be used under the conditions for use described in this instruction manual.

Any other use shall be regarded as non-compliant with the regulations and is excluded from any liability.

GENERAL INFORMATION



BEFORE USING THIS SYSTEM FOR THE FIRST TIME:

- **Read through this instruction manual conscientiously.**
- **Please note in particular that the various safety instructions must be observed.**

1 SYMBOLS USED



This symbol indicates general hazards. There is a danger to life and health.



Conformity mark in accordance with the EU regulation.



UKCA 2002 Electrical Equipment (Safety) Regulations 2016.



The symbol for Protection Class II device, double insulated.



Fragile, handle with care.



This way up.



Keep dry.



Recycling symbol. Refers to packaging that can be recycled (cardboard).



Keep away from sunlight



This product must be disposed of in a designated refuse bin for waste electronic devices (WEEE) in the European Union. Do not dispose of as normal domestic waste.



No smoking. No naked flames.



Read instructions / consult manufacturers guide.



This symbol indicates electrical hazards. There is danger to life and health.

GENERAL INFORMATION

2 DEFINITION OF THE GROUPS MENTIONED

OPERATOR

An operator is any person who operates the Guardian or on whose instruction it is used (e.g., nursing homes, specialised retailers, health insurance companies, medical suppliers).

USERS

Users are persons who, as a result of their vocational training, experience or briefing are authorised / instructed to operate the Guardian or to carry out work on it. Furthermore, the user can recognise and avoid potential dangers and assess the condition of the patient/occupant.

PATIENT/OCCUPANT/SERVICE USER

Persons in need of care, handicapped or infirm.

COMPETENT PERSONS

Competent persons are employees of the operator who as a result of their vocational training or briefing are entitled to commission, install and operate the Guardian.

3 GENERAL REGULATIONS FOR USERS

The Guardian must only be used for the purpose intended. When setting up, operating and using the Guardian, respect the regulations in your country and the general recognised rules of technology and the occupational health and safety and accident prevention regulations. If the Guardian is in a faulty state, in which the patient/occupant, care personnel or third persons could be endangered, do not operate.

3.1 QUALIFICATION OF USERS

The Guardian Wireless System should only be operated by persons who have the corresponding training or experience to enable them to operate the Guardian System correctly.

GENERAL INFORMATION

4 SAFETY INSTRUCTIONS

4.1 SAFETY INFORMATION FOR THE OPERATOR



With the help of this instruction manual, instruct each user in the safe operation of this care bed before it is put into service for the first time.

Advise the user of any hazards which may occur if not operated correctly.

Only persons who have been properly instructed should operate the Guardian. This also applies for persons who only operate Guardian on a temporary basis.

4.2 SAFETY INFORMATION FOR THE USER

Ensure that the operator instructs you in the safe operation of the Guardian wireless falls alarm system.

4.3 CLEANING & DISINFECTION



Before cleaning and disinfection, the mains plug must be unplugged.



Do not immerse electrical components in water but wipe clean with a damp cloth. The electrical components must not be cleaned with a high-pressure cleaner or a water jet. Only disinfection by wiping is allowed.



Always wear waterproof gloves when cleaning and disinfecting to avoid skin irritation.

GENERAL INFORMATION

4.4 SERVICING & MAINTENANCE



Servicing work must only be carried out by competent persons who have read the safety regulations.



A technical check and / or safety inspection must be conducted at least once a year and / or after a lengthy break in use or before each further use.

Any defects, damage or signs of wear must be rectified without delay. Only original spare parts from Harvest Healthcare Ltd may be used, otherwise all guarantees or warranties will be excluded.



Please check the Guardian System regularly to ensure it is operating correctly.



NEVER FOLD OR CREASE THE SENSOR MATS.

5 ACCESSORIES

The optional accessories available include:

Accessories

Power Supply
Seat Mat with Pocket
Mattress Mat with Pocket
Floor Mat
Adapter Cable to use HLV301S and HLV301M
Transmitter

Product Codes

HJR079
HJM343S
HJM343M
HJM301
HJM342
HJM341

GENERAL INFORMATION

6 STORAGE

6.1 RECEIVER AND TRANSMITTERS

If storing for short term (less than a month)

Switch off the receiver using the switch behind the battery cover (see page 12)

Switch off the transmitters using the switch on the side of the transmitter (see page 13)

If storing long term

Open the battery compartment on receiver and remove the batteries (see page 16)

Remove the 4 screws on each transmitter and remove the batteries (see page 17)

Failure to do this could result in damage to the system

Sensor Mats

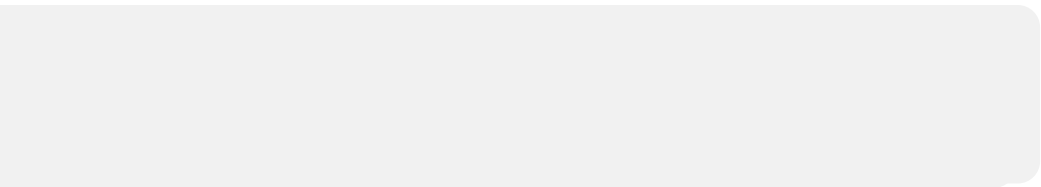
Wipe down with a clean damp cloth and store flat out of direct sunlight.

NEVER FOLD OR CREASE THE SENSOR MATS

8 SERVICE LIFE & DISPOSAL

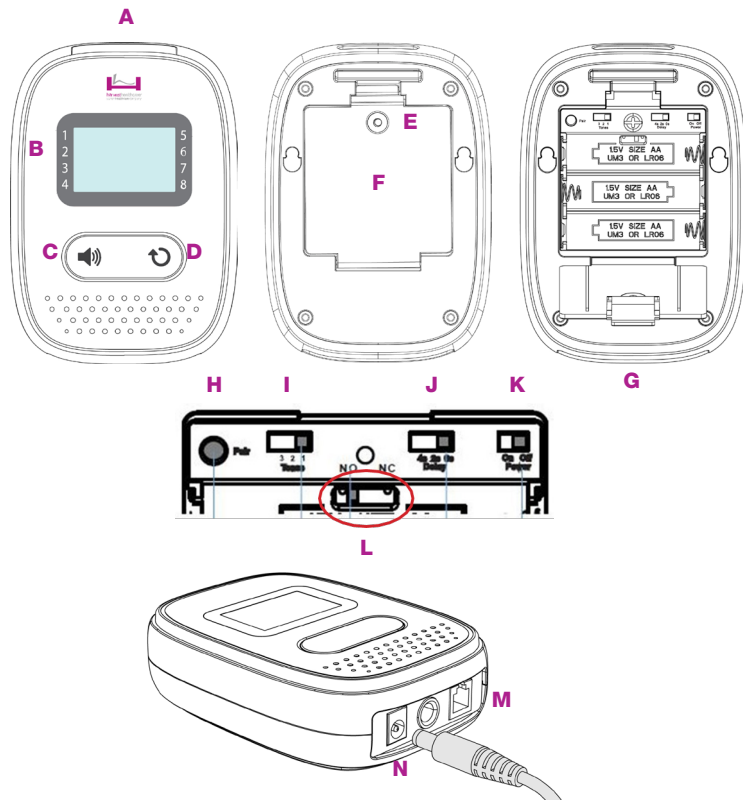


The normal service life for the Guardian in domestic use is approximately 5 years. The Guardian must not be disposed of as normal domestic waste after its service life has expired. To ensure that it is disposed of in an environmentally compatible way please contact Harvest Healthcare Ltd.



OVERVIEW

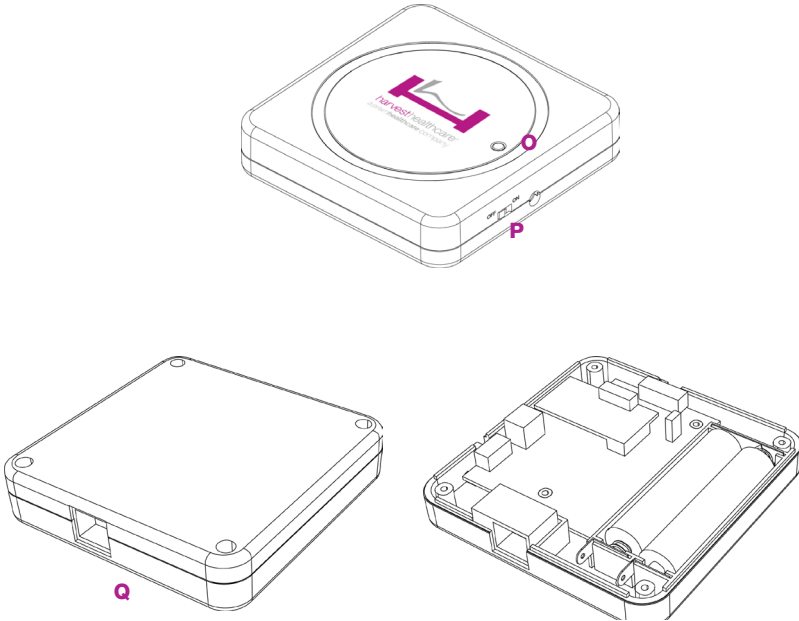
1. RECEIVER OVERVIEW (HJM340)



- A** LED Light
- B** Display
- C** Volume
- D** Reset/Hold
- E** Lock Screw
- F** Battery Cover
- G** Battery Compartment
- H** Pair Button
- I** 3 Optional Tones
- J** Delay Selector
- K** Power Switch
- L** Receiver Output Selector
NO Normally Open
NC Normally Closed
- M** Output to Nurse Call System
- N** DC Power In (6 volts)

OVERVIEW

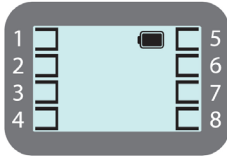
2. TRANSMITTER OVERVIEW (HJM341)



- O** LED Light
- P** Power Switch
- Q** Connection for Sensor Mat


OPERATION

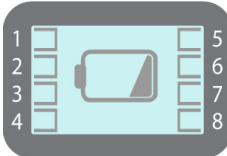
1. DISPLAY



Receiver battery full 

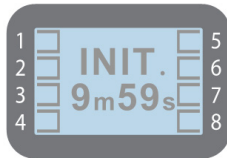
Receiver battery 

Receiver battery low 



Receiver Battery Low

Replace battery now or use mains power supply



System Initializing

System may not function correctly while this is displayed (see page 18)



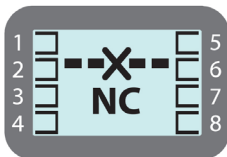
Pairing Transmitter 1

(see page 19)



Transmitter 1 Signal Loss

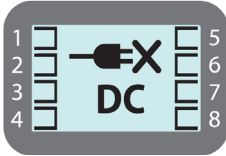
Number 1 transmitter may be turned off, out of range or battery flat.



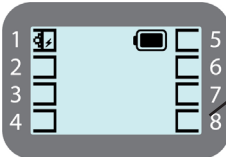
Nurse Call Plug Disconnect

The cable connecting the Guardian transmitter to the nurse call has been disconnected.

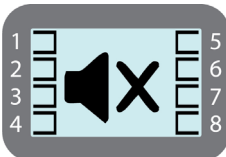
OPERATION



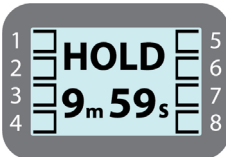
DC (Mains Voltage) Power Fail



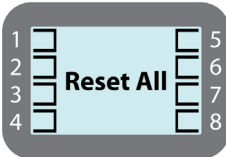
Paired
 Alarm ,in use
 Alarm ,in use
 (Transmitter Low battery)
 (Transmitter low battery)
 (Transmitter low battery)



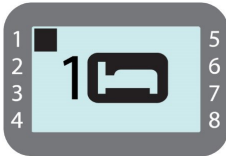
Receiver Set to Silent Alarm
(long press button)



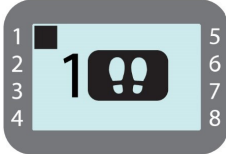
Hold Activated
(see page 21)
System Disabled for 10 minutes



All Alarms Reset
(long press on the reset button)



Trigger from Transmitter 1
(mattress or seat sensor mat)



Trigger from Transmitter 1
(floor sensor mat)

OPERATION

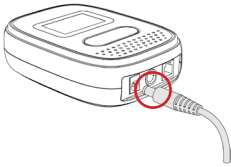
2. SET UP

2.1 POWER

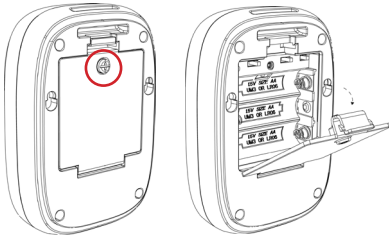
The receiver (HJM340) can work with 3 AA batteries (not supplied) or a 12v power adapter (supplied)

To connect the power supply (supplied)

Plug the small pug into the bottom of the receiver then connect the power supply to the mains supply.



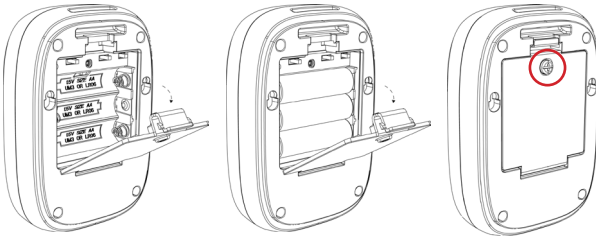
To install/replace the batteries remove the locking screw on the rear of the receiver and open the battery compartment cover.



Install 3 new AA batteries taking care to observe the diagram in the rear of the case showing polarity.

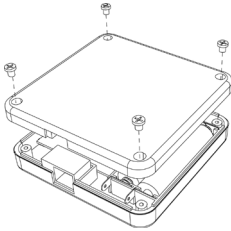
Turn on the receiver (on off switch inside rear cover top right hand side)

Close the rear cover and tighten the locking screw

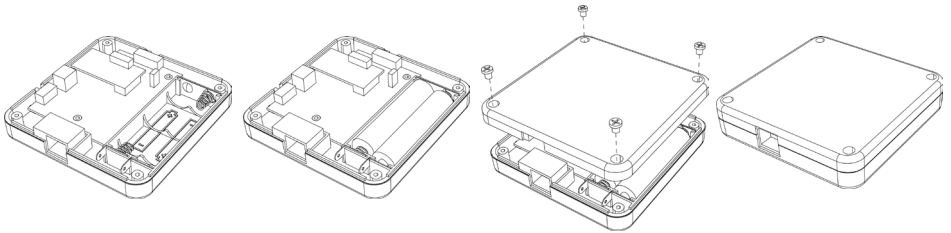


OPERATION

The transmitter (HJM341) works with 2 x AAA (supplied and installed)
To replace the batteries, remove the 4 screws on each corner of the rear cover.



Install 2 new AAA batteries taking care to observe the diagram in the rear of the case showing polarity.
Refit rear case and install and tighten all 4 screws.

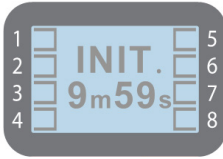


OPERATION

3. INITIALISATION







Each time the system is powered up it will enter an initialisation period for up to 10 minutes. This is to allow it to receive a signal from any paired transmitters or confirm the battery status and signal strength.

The display will show:




The   will flash and the 10-minute timer will count down

As the paired transmitters update the receiver the symbols will stop flashing and the receiver will display a status (see below)

Diagram	Description
 	Paired (no connection to receiver if it continues flashing after initialisation) (Transmitter Low Battery)
 	Alarm In Use (Transmitter Low Battery)
 	Pad In Use (Transmitter Low Battery)

If all the paired transmitters update the receiver the initialisation period will end before the 10-minute count down finishes.

If any transmitters do not update the receiver the initialisation it will run for the full 10 minutes.




The initialisation period can be canceled by pressing 



Please Note

At the end of initialisation, a tone will sound and the display will indicate the status of any paired transmitters (check section 1 for guidance of symbols)

You must check the status of all connected transmitters at the end of initialisation.

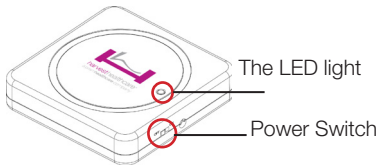
Any paired transmitters that don't update the receiver will show  or  will continue to flash indicating transmitters that did not connect to the receiver. Please check these transmitters are within range, switched on and the batteries are not discharged
Test all connected transmitters and sensors to ensure they are working correctly
If this is the first time the system has been powered up, please press  and move to Pairing sequence (see page 19).

OPERATION

4. PAIRING SEQUENCE

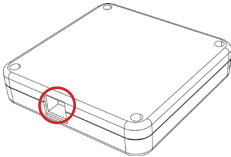
Once you have supplied power to the receiver you can begin pairing the transmitters to the receiver.

- Turn on the transmitter using the switch on the side of the transmitter, the LED light flashes once to indicate normal battery



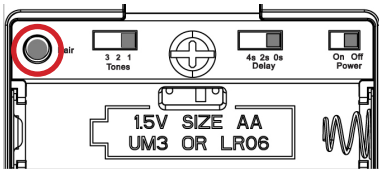
If the LED light continues flashing the battery is low and should be replaced (see page 17).

- Connect the sensor pad to the RJ11 socket on the transmitter, depending on the configuration of your system this may be direct or via an adapter cable.

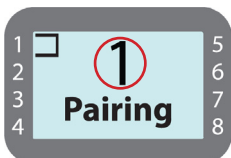


Enter pairing mode

Long press the Pair key, and release it after the “Beep”

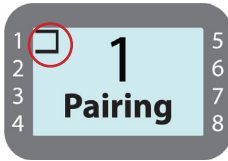


- Short press the pairing button to select the pad number (example below showing number1)



OPERATION

- Hold the pairing button until you hear a beep.
- The icon by the corresponding transmitter number disappears (pairing deleted)



- At this point you should stick the label with the corresponding number on the display (supplied with the receiver) on the transmitter. This is important to identify triggers or faults from the transmitter.
- Follow the above steps for each transmitter you wish to connect, taking care to select a different number each time you pair a transmitter.

Please Note

- If you pair a new transmitter over a slot with a previously paired transmitter the new transmitter will replace the old.

4.1 DELETE PAIRING

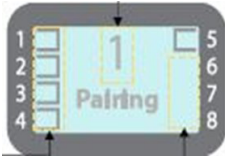
- In pairing mode (see above)
- Select the transmitter number you wish to unpair.



OPERATION

- Hold the pairing button until you hear a beep.
- The icon by the corresponding transmitter number disappears (pairing deleted)

Pairing Number





Pairing
transmitters
1-5

Unpaired
transmitter
slots 6-8

Please Note


If you pair a new transmitter over a slot with a previously paired transmitter the new transmitter will replace the old.

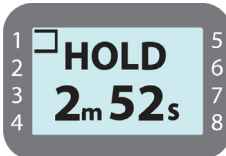
5. CANCELLING AN ALARM


1. Short press  to cancel the current alarm (cancel one at a time if there are multiple alarms)
2. Long press for  3 seconds to cancel all alarms at once.

6. HOLD FUNCTION

The hold function is to allow the system to be cleaned or configuration adjusted without any alarms being triggered (will not register any alarms while the hold function is active)

1. (With no alarms displayed on the screen) Long press  Display will show **HOLD** and a 10-minute countdown will begin.





2. After the countdown the system will revert back to previous operation. The hold function can be exited early by pressing the  button.

OPERATION

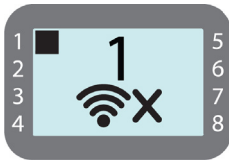
7. RECEIVER ALARM TEST

Test the receivers audible alarm and LED light

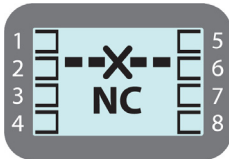
1. With the receiver in a normal state (no alarms triggered) press and hold  and  at the same time.
2. The receiver should sound the alarm and the red LED should flash.

8. RECEIVER OPERATION ERROR MESSAGES

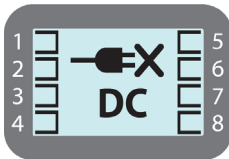
1. Transmitter signal lost (example shown transmitter 1)
Check transmitter in range (move closer to receiver)
Check transmitter is switched on



2. Connection between receiver and nurse call system disconnected
Check cable is connected to receiver



3. Check power supplied is connected to the receiver, check power supply is connected to main supply and switched on



4. After you correct the issue long press  to clear the error message.

SETTING UP THE SYSTEM

1. Install the receiver (close to the nurse call system) using the mounting bracket supplied.

Once the bracket is screwed to the wall or attached using an adhesive pad, clip the receiver to the mounting.

2. Install the seat sensor pads
Place the mat at the best position on the seat.
Ensure the transmitter pocket is well away from the user either at the front, back or side of the seat.



The transmitter must not be under the person sat in the seat as this will be a serious pressure sore risk.



Check the receiver is connected to the sensor pad.
Check the transmitter is turned on and has been paired with the receiver (see page 19)



3. Install the mattress sensor pad
Place the mattress sensor pad across the mattress on the central static (non profiling) section of the bed platform.



Check the transmitter is turned on and has been paired with the receiver (see page 19).

SETTING UP THE SYSTEM



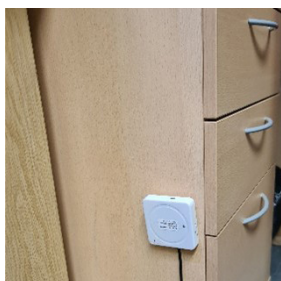
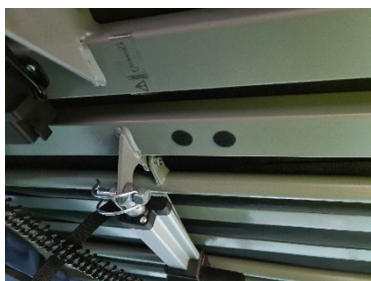
Test the sensor pad works, in some situations the sensor pad may not be sensitive enough to work under a pressure relieving mattress. If this occurs contact Harvest Healthcare for advice.

4. Install the floor sensor pads

Check the transmitter is turned on and has been paired with the receiver (see page 19)

Place the pad at the side of the bed (paying attention to the information printed on the sensor pad)

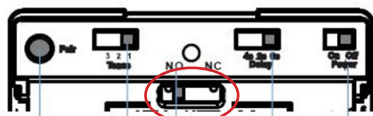
Attach the transmitter to the underside of the bed or another suitable surface (with the pads supplied with the cable) to prevent it becoming damaged by moving and handling equipment, position the cable to reduce the risk of it becoming damaged.





Never position the transmitter on the floor where it can be damaged by moving and handling equipment.

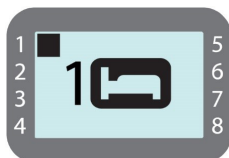
OPERATING THE SYSTEM

1. Connect the receiver to the power supply and turn the receiver on (using the power switch in the top right corner of the battery compartment) the receiver will begin initialisation to identify how many transmitters are connected and identify battery level and signal strength (see page 18)
2. After initialisation the system will be active, test each connected sensor pad for correct operation, ensure each sensor operates as expected.
 - The floor sensor pad should trigger an alarm on the receiver as soon as pressure is applied to the sensor pad
 - The bed or seat sensor pads should make the receiver beep twice as pressure is applied to the sensor pad, once pressure is removed from the pad the receiver should alarm.
3. Connect the receiver to the nurse call system using the correct cable (see guide section) switch the NC/NO switch to the correct position for your nurse call system (see guide section) to access the switch you will need to remove the top battery

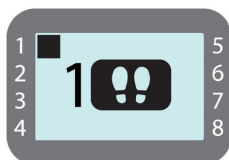


- To test the receiver is working correctly hold  and  together to trigger an alarm. The nurse call system should trigger as soon as the receiver alarms.
 - If the nurse call system triggers when the alarm is canceled change the position of the NC/NO selector.
4. In the event of a trigger from a sensor pad the receiver will should alarm and display the sensor creating the trigger (see examples below)

4.1 Trigger from seat/mattress sensor 1



4.2 Trigger from floor mat sensor 1



SETTING UP THE SYSTEM

4.3 Pay attention to the display for each transmitter



Diagram	Description
	Paired (Transmitter Low Battery)
	Alarm In Use (Transmitter Low Battery)
	Pad In Use (Transmitter Low Battery)

4.4 To cancel an alarm

- Short press to cancel the current alarm (cancel one at a time if there are multiple alarms)
- Long press for 3 seconds to cancel all alarms.



Important

Cancel the alarm on the receiver before cancelling the alarm on the nurse call system

- For any other receiver display notifications (see pages 14 and 15)



Important

- Test the system for correct operation daily and before each use.
- Pay attention to the display on the receiver for any warning notifications.

GUARDIAN SYSTEM CONNECTIONS

NURSE CALL SYSTEM TYPE

PARTS TO CONNECT GUARDIAN SYSTEM TO NURSE CALL

DIFFERENT ACCESSORY CONNECTION OPTIONS

Intercall or Chubb

Cable from Nurse Call to Guardian **HJM309** Cable

Aid Call

Cable from Nurse Call to Guardian
HJR076 Adapter & **HJM309**

Cortney Thorne

Cable from Nurse Call to Guardian
HJM002 Adapter & **HJM309**

Quantec

Cable from nurse call to Guardian
HJM310 Cable

Medicare

Cable from Nurse Call to Guardian
HJM355 Adapter & **HJM309** Cable

Guardian **HJM340**
Power Supply **HJR079**




To use Guardian with:
Wireless Seat Mat (with pocket) you require
Seat Mat (with pocket)
HJM343S + Transmitter
HJM341

To use Guardian with:
Wireless Mattress Mat (with pocket) you require
Mattress Mat (with pocket)
HJM343M + Transmitter
HJM341

To use Guardian with:
Floor Mat connection you require
Cable to connect to Floor Mat
HJM342 + Floor Mat **HJM301**
Optional Mat Cover **HJM302**

To use Guardian with:
Connection to wired (older harvest)
Seat and Mattress Sensors you require
HJM341 adapter cable to use with
HLV301S and **HLV301M**

TROUBLESHOOTING

1. No display
 - Connect power supply or install batteries.
 - Turn receiver on/off switch in top right-hand corner of battery compartment)
2. Receiver does not trigger when sensor mats operated
 - Check the transmitters are paired to receiver (see page 19)
 - Check sensor pad is connected to transmitter (see page 18)
 - Check sensor pad is functioning correctly (try a different sensor pad)
3. Receiver alarms but makes no noise
 - Adjust the volume level by pressing 
4. Receiver alarms but does not activate the nurse call system
 - Check receiver is connected to the nurse call system
 - Check the receiver is connected to nurse call system with the correct cable (see page 27)

For any issues contact Harvest Healthcare and give details of issue and your nurse call system.

NOTES

Dotted lines for writing notes.

NOTES

A series of horizontal dotted lines for writing notes.



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