



Technical Solutions Australia Pty Ltd
ABN 14 063 349 502
109 Ferndale Rd. Silvan VIC 3795
PH (03) 9737 9000
Fax (03) 9737 9111
service@tecsol.com.au
www.tecsol.com.au

Information Sheet

PROXI-MATE
HPS-2
(Bed or Chair Exit Alarm)

Cat. Number: HPS

The **PROXI-MATE** (Human Presence Sensor) is designed to alert care staff when ‘at risk’ individuals rise unaided from a bed or chair.

The system interfaces with any nurse call system that has a removable, plug in type, call bell pendant. When the monitored individual rises from the Sensor Mat the device activates the nurse call system in the same way as a resident pressing the call bell for assistance.

Setup.

There are two main components.

1. **The Sensor Mat** – this thin, flexible vinyl mat is placed directly on top of the mattress, across the bed, roughly where the resident’s lower back is expected to be. The mat can be tied in place if necessary. The mat should be covered with a plastic sheet, draw sheet or kylie to protect it from damage and to prevent the resident feeling the mat through the bedclothes.

For use with a chair simply place the sensor across the seat with the wire in an inaccessible place and cover with a sheepskin or kylie. (Note that the vinyl mat should not be creased or folded)

2. **The Interface Unit** – (the grey box) contains the electronics that convert the signal from the mat into a form suitable for the nurse call system.
 - The Interface Unit should be fixed to the wall immediately above the headboard.
 - It is important to keep the Interface Unit as close as possible to the mat – less than 1.5 metres is preferable.

Connections

- The lead from the Sensor Mat should be run underneath the mattress, out of harms way, and plugged into the appropriate socket on the bottom of the Interface Unit.
- If required, the nurse call pendant can be plugged into the jack socket on the underside of the Interface Unit (see notes). When connected in this way, the nurse call pendant will function as if it were connected directly the main system.
- Plug the 12Volt plug pack power supply into the appropriate socket on the bottom of the Interface Unit and into a 240Volt power outlet.
- The lead from the Interface Unit is plugged into the wall socket that the nurse call pendant is normally plugged into. In other words, the grey Interface Unit takes the place of the call pendant.

PROXI-MATE Human Presence Sensor HPS-2

(Bed or Chair Exit Alarm)

Operation

- Ensure that ALL the lights are off. Settle the resident into bed (or on their chair)
- Now press the Yellow button and quickly remove your hand from the vicinity of the Interface Unit.
- The 'Power' Light comes on.
The Alarm Light "A" flashes 3 times and then stays on - and Light "B" also comes on.
- Press the button on the Pager to turn it on – it will 'warble' and its light will flash every few seconds.
- The resident is free to move in the bed to a limited extent but once the resident rises from the bed (or chair) for longer than the allowed time period (see Notes) the alarm will be activated. The Alarm lights "A" & "B" will flash indicating the alarm.
- Once the nurse call system has been activated the resident should be attended as soon as possible.
- Reset the call system in the usual way.
- Reset the HPS-2 by pressing the Yellow button once – all lights will go out.

When the system is working normally there are no lights visible when switched on – except when the alarm has been activated.

Notes:

1. There are many different types of nurse call interface with different plugs and wiring. The HPS-2 has been designed to work with as many of these as possible. In many cases the system can simply be plugged in 'out of the box', however, for more complex systems the interface will have to be configured to suit. The simple way to do this is to send a WORKING nurse call pendant from your system directly to Technical Solutions – this pendant can be analysed and converted to suit, while the Interface Unit can be configured to match your system.
2. The HPS-2 is intended to be used as part of an effective risk management plan. It should never be relied upon, as a complete solution to your resident monitoring needs.
3. The location of the sensor box, relative to the person being sensed, is critical. The system will not operate effectively if the installation instructions are not followed carefully.
4. Power Supply:
The system accepts any DC input at 6 – 12 Volts with a capacity of 200ma – The centre pin is Positive. Input voltage should not exceed 14 Volts – a regulated supply is recommended.
5. The HPS-2 has a local beeper that will sound during the alarm state. A small switch on the circuit board inside the box can disable this beeper.
On the set of 4 Dip Switches:
Switch 1: 'ON' = Beep, 'OFF' = On Beep.
6. The HPS-2 has two options for **Delay before alarm**. Note that the longer time period allows the patient to move about in bed, roll over etc., without setting off the alarm. If you want to be alerted more promptly, the delay can be set to 1 second. This will give an alarm as soon as the patient becomes restless.
On the set of 4 Dip Switches: Switch 4: 'ON' = 2 seconds, 'OFF' = 10 seconds

Fault Conditions:

- a. If NO lights flash – Check the connections to the Plugpack power supply
 - b. If the alarm Lights keep flashing each time you press the Yellow button -
Check the cable connections between the Proximate and the bed Mat.
-

PROXI-MATE Bed/Chair Exit Alarm **HPS-2**

Operation Notice

- When the resident is not in bed
Leave the Interface Unit switched OFF
(Press Yellow button so that all lights are off)
- Note that the vinyl mat should not be creased or folded.

1. Settle the resident into bed (or on their chair)
2. Now turn the unit ON by pressing the Yellow button.
3. The Alarm “A” Light flashes 4 times and then stays on.
4. The Alarm “B” Light also comes on.
5. The Sensor is now ACTIVE.

- Once the resident rises from the mat for more than around 8 seconds the alarm will be activated.
- Once the nurse call system has been activated the resident should be attended as soon as possible.
- Reset the HPS-2 by pressing the Yellow button once. The lights will go out.
- Then reset the call system in the usual way.

Please display this notice beside the PROXI-MATE (Bed/Chair Exit Alarm)