P162A Wired PIR Motion Detector

User/Installer Handbook

Models covered by this handbook	
P162A	Wired Motion Sensor

One of a range of Alert-it Care Alarms available from:

UH1118

Alert-it Care Alarms, Atherstone House, Merry Lees Industrial Estate, LE9 9FE
0845 2179951, www.alert-it.co.uk, sales@alert-it.co.uk

Made in the UK

This handbook is intended to assist carers install, configure and use the monitors. The carere therefore needs to understand the needs of the user and asses that the monitor meets those needs and if any supplementary monitoring is needed taking into account any health risks.

The P162 is based on the familiar infra-red intruder alarm, modified to assist in the care of those who would be at risk if mobile and unsupervised.
The P162 is perfect for discrete monitoring of clients at night as it is totally portable and can be placed in the room at any stage and connected to the infrastructure Nurse Call system.

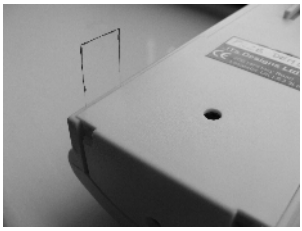
Nurse Call Connectivity

The P162A is supplied with a lead configured for use with any Nurse Call or Remote Annunciator or Telecare (including P117B telephone autodiallers). The output can offer both normally open and normally closed switch contacts

Activation

The system is armed by the carer using a small key fob, who then has 30 seconds to leave the area.
If there is subsequent movement in the room, then after 4 seconds the output alarm is activated if not disarmed with the key fob

Power connection



First time activation:
On arrival, remove the battery isolating tab shown by pulling out.

For stand alone systems the P162B features a radio link to the P137/P138 pagers.

Installation

Location:

- The unit has a horizontal window covering approximately 1.5 meters (the length of a bed) from a distance of 1.5 meters. It also has a narrow vertical window (±20 cm from the base) at this point. Hence if positioned on the floor pointing at a bedside, at a distance of 1.5-2.5m, it will detect feet descending to the floor, while being immune to body movement in bed. This makes it ideal for monitoring bed vacation,
- If positioned on furniture or wall mounted using the bracket supplied, at a height of approx. 50 cm above the bed height with a clear view of the bed, it will detect someone sitting up while being immune to normal movement around the bed.
- If positioned viewing a door or on a corridor wall at body height it will operate when someone comes into view, but can be immune to pets etc at floor height. The range is up to 5 metres.
- It can also be mounted centrally above a door, pointing down. It will then alarm if someone passes through the doorway., but not if they are further away than a typical door mat.

To ensure reliable operation it is essential to ensure that there are no sources of rapid heat change within the viewed area. Such sources could be radiators, windows, dangling decorations, bathroom doors

Securing

The bracket supplied should be used to secure the main unit to a wall or other fixture. Screws and wall plugs are supplied

Connecting to Nurse Call:

The unit will be supplied with a connector to mate with any specified Nurse Call. This is often supplied as a an extension lead to the standard RJ22 Female connector, using the normally open or closed contact as necessary. Plug the unit into the wall socket, replacing any call button. Alert-iT can supply “splitter adapters” that allow the call button to be used along with P162.

Pairing the Keyfob

After first enabling the battery power, or following battery replacement, the supplied keyfob has to be paired with the main unit by pressing ARM while pointed at the front. The red led should flash and pairing is complete.

Operation

Arming the unit:

Point the key-fob at the unit and press ARM. The red led will flash. You now have 30 seconds to leave the area without triggering the alarm

Disarming:

Point the key-fob at the unit and press DISARM within 4 seconds of entering the room. The red led will flash.

Detection

Once movement is detected and the 4 second wait is past, then the P162 will operate the changeover switch and activate the alarm, leaving the front red led illuminated. After 30 seconds the unit will reset for a brief period to reassess if movement is continuing. If so the output is re-activated.
Hence it is possible to find the occupant has returned to bed, the P162 appears to be in standby, but the Nurse Call was triggered.

Cancelling the alarm:

Point the key-fob at the unit and press DISARM, then reset any remote alarm equipment (eg the Nurse Call Wall unit)

Battery Low

If the battery is low, then the red led on the front will remain on without their being an alarm and will not cancel by pressing DISARM.
Failure of the red keyfob light to flash will indicate the batteries will need replacing in the keyfob

Maintenance

Cleaning

Use Alert-iT procedure

Technique B

Wiping with cotton wool pads moistened (compressed until dripping stops) with a mild detergent (0.5% washing up liquid) solution.

Battery

Remove the bottom screw from the rear panel and gently lever up and slide out to reveal the battery compartment. Ensure the Nurse Call cable slides through the hole to allow the back panel to be moved clear.

After replacement replace the rear panel, ensuring the cable lies flat so not to bow the rear panel

The key-fob batteries are replaced by sliding open the cover.

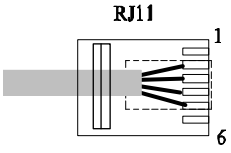
Battery Life	3 months
Main Unit	4* AA Alkal;ine Cells
Keyfob	3* LR44

Technical Information

Output Connections

The standard RJ11 connection is shown below.:

Pin	Function
1	Normally Closed
2	
3	Normally Open
4	Common
5	
6	



Safety Instructions and Warnings

This symbol indicates there are warnings and precautions associated with the use of this equipment that should be carefully read and understood before using the equipment

1. Ensure that the output cable is routed and secured to avoid the risk of entanglement or strangulation.
2. Clean and disinfect each item regularly in accordance with information herein
3. Regularly test as described herein
4. As with all medical electronic equipment there is potential for the equipment to interfere with or be effected by interference from other electrical or electronic devices. For this reason avoid placing the monitor, sensor or connecting cable in close proximity to sensitive electronic devices or devices which produce strong electromagnetic fields such as radio transmitters, mobile phones or power cables.
5. If the equipment is modified in any way, appropriate inspection and testing must be conducted to ensure continued safe use of the equipment.
6. The carer must conduct a risk assessment to determine if the level of reliability offered by the monitor is sufficient or if additional monitoring is needed. Contact the manufacture for assistance with Risk Evaluation Tools.
7. Additional levels of mechanical protection may be needed for some patient disorders. Contact the manufacturers for advice
8. Some accessories are fitted with small screws and have plastic bags. Ensure these do not come into the possession of vulnerable patients who might choke on them
9.
10. The monitor and all accessories are designed to operate indoors in a residential environment of 10ºC to 30ºC and 90%RH max.

This system is certified to the following European Standards	
73/23/EEC	Low Voltage Safety Directive
89/336/EEC	Radio Interference Immunity
EN 300 220-1 V2.1.1 (2006-04)	Permitted radio transmission
EN 50081-1:1992	Domestic Radio Emissions
EN 50082-1:1995	Industrial Radio Immunity
EN12182	Assistive Technology
Also complies with 2002/95/ECRoHS	Permitted Materials

Additional Documents	
Quick Start Wired P162 Systems	
You tube Instruction Videos Index	UV1198

None of the components, including batteries should be disposed of as Domestic Waste. For information on disposal contact iTs Designs Ltd.

Support

For technical support please fax or EMail:
HELP: 0845 2179951
FAX : 0845 2179953
Support@itsdesigns.co.uk

Designed by:
ITs Designs Ltd
Leicester
LE9 9FE UK

...using technology to care for carers

The Alert-it system has been designed with due regard to reliability and integrity. While it offers a highly vigilant monitoring method,it is always possible that a distress condition can go undetected for a variety of reasons (including malfunction) and in life threatening situations it is advisable to use the Alert-it system in conjunction with additional monitoring techniques (e.g. video). Neither the manufacturer nor its agent can accept legal responsibility to provide a system that is infallible. The carer is responsible for assessing the risks of using this equipment and any settings pertaining to it.