Alert-it Care Alarm Technology

P164 Safelink Repeater

Installer Handbook

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

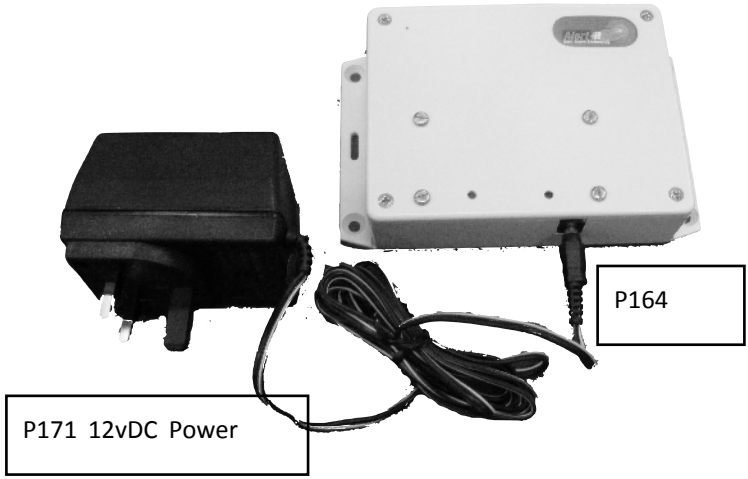
UH1154

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 for those concerned in installing a full Alert-iT Care System using the Safelink Radio

The P164 is an additional unit for any “Safelink” System. Normally these systems will cater for a distance of up to 450 meters between monitors and pagers or autodiallers. In the event that a greater distance is needed, then the P164 acts as a repeater; boosting the signal into an extended area. It will also find use if particular building conditions reduce the range available.
The P164 will normally be powered from a mains adapter, but has an internal rechargeable battery that will take over and maintain operation during power failure.



Installation

Locating suitable locations for Repeater

The unit is sealed to IP61 and should be used in a dry residential area of 10ºC to 30ºC and 90%RH max.

Normally the user will have noted a particular dead area in the building and simply locating the repeater some way towards the monitors will be sufficient to create the extra coverage

If there are large areas without signal or variability in performance from different monitors spread in the building, then a more formal approach can be used.

1. Put the pager into “NODE TEST” mode (see pager handbook for details as this requires using the supervisor menu, entering a password and locating the Node Test facility in the FUNCTION menu).
2. Ensure NO repeater is active (ie remove the power connectors)
3. Now walk away from the monitor at the further place from the area where radio fails. Watch the signal strength value for each monitor as it flashes on the screen. The minimum value for reliable operation is 80, so position the first repeater at this point. Turn it on (the unit can run temporarity on the internal battery if the power supply is plugged in, but without mains power connected) and proceed to find any other places where a monitor radio signal falls below this value, and put subsidiary repeaters here.

The P164 should be mounted on a wall, high enough to prevent tampering, but within the reach of the power lead supplied (a thin extension wire can be supplied by the manufacturer on request) . Ensure there is no cables or pipework in the immediate vicinity. Not only may these prove as danger to the drilling of the fixings, but may also reduce the radio signal strength.

Using either the screws or the adhesive pads supplied, fix the P164 in position.

Plug the adapter into a near mains socket and connect to the P164. The unit will immediately begin boosting any Safelink signals received. The Green light will flash each time a signal is boosted. ITs Designs can supply DC Power extensions leads if required

If the new boosted range is still insufficient or there is another direction in which the signal strength needs boosting, then more P164 Repeaters can be fitted without limit.

Maintenance

Cleaning

Technique B

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

Standby Battery

After 2 years in service the battery should be checked by removing the power and ensuring the unit keeps functioning for a reasonable period (eg 2 hours). If this fails then replace the battery. To do this then remove the lid and replace the battery in its compartment. Ensure the wires to the battery or returned to the compartment and reseal the lid.

Battery: 9v PP3 NiMH rechargable 17R8H or equivalent

None of the components, including batteries, should be disposed of as Domestic Waste. Contact iTs Designs for end-of-life information

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

Support

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...using technology to care for carers