



# pulse companion

HANDBOOK

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LESS STRESS CARING

Your product has been manufactured by a team of industry experts with more than 20 years of experience designing, manufacturing and distributing care alarms.

With a commitment to quality and innovation we are able to bring you a robust and reliable system to aid carers with the detection of seizures and the safeguarding of individuals. Please read this guide carefully to ensure the correct set up, use, and maintenance of your new product for years to come.

If you have any questions or require assistance in regards to the Pulse Companion or any other Alert-iT product, our experienced team are on hand to help. Please find contact details below. Don't forget you can also join us on Facebook, Twitter and LinkedIn where you'll find even more information and advice.



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 Alert-iT

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**The Rhythm +2.0 armband provided is not intended to diagnose, treat, cure or prevent any disease. Even though it intends to give an accurate BPM reading, it is not a calibrated piece of equipment and should not be used to provide a measuring function.**

The detected heart rate is used for reference purposes only when setting the alerting levels. The alerting thresholds chosen should be based around the detected min and max values observed when using the device under normal (Seizure free) conditions.

The armband's optical sensor detects changes in the optical translucence of the skin tissue [photoplethysmography (PPG)] . The variations it detects can be used to infer the approximate heart-rate of the patient. The BPM (Beats per minute) reading that it generates can be affected by ambient lighting, skin colour, skin temperature and motions of the limb the sensor is connected to, therefore the BPM reading shown cannot be used as an accurate measurement of the users heart-rate. The devices intended application is to detect gross changes in this heart-rate reading that could indicate a distress condition is present.

Due to the sensor being affected by normal movements, daytime use is less consistent and likely to give a higher false alarm rate if the thresholds are set close to the observed min and max values.

## Limitations

- ✔ The device is not proven to predict seizure onset.
- ✔ The device is not intended to be used during physical activity.
- ✔ The device is not intended to be used to guide medical therapy decisions.
- ✔ The device is not intended to be used as a stand-alone monitoring device.
- ✔ The armband can give false readings when not worn (See page 26 for more details).

## Important safety information and risks

Alert-iT cannot guarantee that the Pulse Companion will detect every single seizure and deliver alerts accordingly. The system is not meant to substitute your current seizure monitoring practices, but rather to serve as a supplement in expediting first-response time. It is important to not alter current seizure management practices when using the Pulse Companion.

The main risk associated with the Pulse Companion is the device failing to detect a seizure. If the user or caregiver changes their seizure management practices and relies solely on the Pulse Companion, this may lead to less than adequate supervision. Users should discuss the risks, benefits and safe thresholds levels of the Pulse Companion with their health professional.

### WARNING:

Scosche "Rhythm +2.0" (Manufacturer of armband sensor) state:

Rhythm +2.0 heart monitor has a heart rate tracking feature that may pose risks to users with certain health conditions. See page 26 for details

The Pulse Companion provides peace of mind for carers and individuals who have epilepsy.

This product has been designed to discreetly monitor the user with an armband sensor which identifies variations in heart-rate that could indicate a seizure.

The monitor can help to indicate seizures where there is a known heart rate variant.

The Pulse Companion is typically paired with Alert-iT's failsafe "Safelink®" Pager or the Connect-iT when alerting through a third party alarm system. Upon detection of a heart-rate reading that is above or below the thresholds set by the user/carer, an alarm condition is raised and sent to the pager.

The Pulse Companion is a battery powered unit with a 6 months battery life. The armband's battery life is typically 16 to 24 hours between charges.

## Warranty Information [Where equipment has been provided directly from Alert-iT]

For 3 years from the date of purchase of the initial equipment, Alert-iT will offer you [for the Pager + Pulse Companion (Armband = 1 year)];

- ✔ Access to support between the hours of 9.00am and 5.00pm each weekday (excluding Public Holidays) via the telephone help-line for the purposes of fault diagnosis and the provision of advice.
- ✔ Repair (or if this is not possible; replacement) of faulty equipment free of charge, however, the equipment must be returned to Alert-iT at your own expense.
- ✔ After inspection by Alert-iT engineers, any equipment that is deemed to have been damaged, rather than failing due to a technical fault will only be repaired after you have agreed to being invoiced for the cost of repairs and delivery.
- ✔ This agreement will terminate 3 years after the initial date of purchase, regardless of any new equipment being issued in the interim period.
- ✔ Batteries are not included in warranty.

### PLEASE NOTE:

Liquid ingress voids warranty (excluding armband).

For those requiring support outside of Alert-iT's office hours, please contact our sales team and ask about our Premium support packages.

The Pulse Companion Pack Contains:		
A	1x Armband Sensor - P195A	
B	1 x Sensor Charging Cradle	
C	1 x Mains USB Charger for Sensor	
D	1 x Pulse Companion	Includes 2 x AAA Non-rechargeable Batteries (fitted) 2 x spare Batteries
E	1 x Advancer pager	Includes 2 x AA Ni-MH Rechargeable Batteries
F	1 x 9v Pager Power Supply	
	1 x Wall Mounting Kit (Not Shown)	2 x Sticky pads / Wall screws / Wall plugs

A



B



C



D



E



F



The Pulse Companion provides a method of detecting seizure activity that typically only presents its-self in a change of heart rate.

The armband used does not contain an accelerometer and will not detect shaking movements, it only provides reference heart rate readings. For Tonic-clonic (Shaking) style seizures our Companion Mini, Companion or Guardian monitor may be more suitable.

Please note that the heart rate reading provided by the wearable sensor can struggle to accurately track the heart rate when the user is moving around. As such, the sensor performs best when the user is in bed or sat down. If the sensor is to be used while moving around, the alarm thresholds can be widened to accommodate the more varied heart rate readings that are given by the sensor.



## Armband

- ✓ Unpack box and turn on the armband sensor by pressing and holding its big button for 5 seconds, indication lights will appear.
- ✓ Adjust the sensor strap and fit it to the upper arm ensuring the sensor is not too tight and will be comfortable to wear for extended periods (see page 16).
- ✓ For turning off the Armband see page 17.



Figure 1

## Pulse Companion

- ✓ Turn on the Pulse Companion by pressing and holding the ●●● button for 3 seconds.
- ✓ The pulse companion will automatically pair to the armband. The LED will flash green every second while scanning for the band, then flash green rapidly when it is detected and paired.
- ✓ The light on the Pulse companion will blink green every 4 seconds when monitoring (See page 23 for more information).
- ✓ For unpaired armband please see page 15.

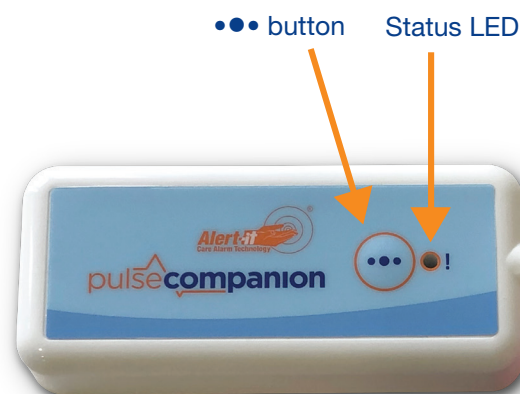


Figure 2

## Pager

- ✓ Turn on the Advanced Pager by pressing and holding the **“Down/Menu”** arrow for 3 seconds.
- ✓ You should now see the monitor name appear on the pager every 8 seconds.
- ✓ To snooze any active alarm / fault tones press the **“Up”** arrow, this will snooze any active alarm calls for 5 minutes.



Figure 3

## Configuration app and Smart Phone Compatibility

The Pulse Companions settings can only be adjusted via the Smart Device App.

Proceed to Page 11 for instructions on installing and using the smart device app.

The Alert-iT app is compatible with the following iOS and Android devices:

**iOS:** We support devices running iOS 10 or higher.

**Android:** Devices running Android version 4.3 (Jelly Bean) or higher, as long as they support Bluetooth Low Energy (BLE / 4.0 / Bluetooth Smart). We do not guarantee full compatibility with custom or unofficial versions of Android running on phones or tablets.

**Other mobile platforms:** We do not support Windows and Blackberry phones.

### PLEASE NOTE:

Not all devices that list Bluetooth 4.0 in the specifications, actually support Bluetooth Low Energy. We suggest contacting the manufacturer directly for complete information.

The “**Alert-iT**” configuration app is available on both iOS and android for free.

Search for “**Alert-iT**” in either the “**Google Play Store**” or “**Apple App Store**” to find the app and install it.



**Note:** After you have installed the app you may be prompted to allow the app to access your devices location. This is a new security feature added by android that restricts the use of Bluetooth from app’s that do not require it. Our app does not store or track anything to do with your location, but it does need access to the Bluetooth so you will need to accept this permission to proceed.

## Scanning

After opening the app you will be presented with a big “**Scan**” button.

In order for the app to be able to find the device while scanning, the Pulse Companion needs to be “**Advertising**”. The Pulse Companion will advertise for 1 minute (by default) each time the ●●● button is pressed on the Pulse Companion.

**Note:** We only advertise for 1 minute as a security feature to prevent anyone connecting to the device without first pressing the button. This 1 minute restriction can be removed if desired (See page 14).

Briefly press the ●●● button on the Pulse Companion then click “**Scan**” in the app. The device will appear after a few seconds, ensure that the serial number/nickname matches that printed on the side of your Pulse Companion click to select the device. You can assign a more memorable nickname for your device once connected (See page 13).

“**Auto Disconnect**”: This app will Automatically disconnect from the Pulse Companion when not in use. If you wish to be connected to the app for longer periods, you should un-tick this box. (**Please note: This will reduce battery life of the Pulse Companion.**)

For Trouble Shooting Press ?

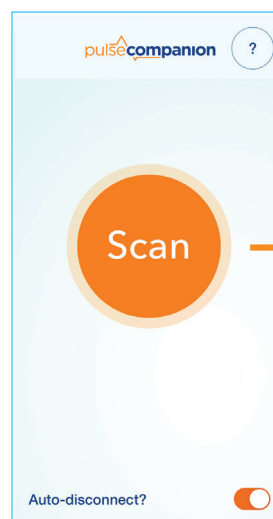


Figure 4

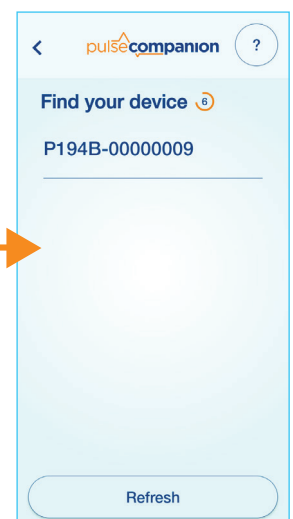


Figure 5

## Setting the Thresholds

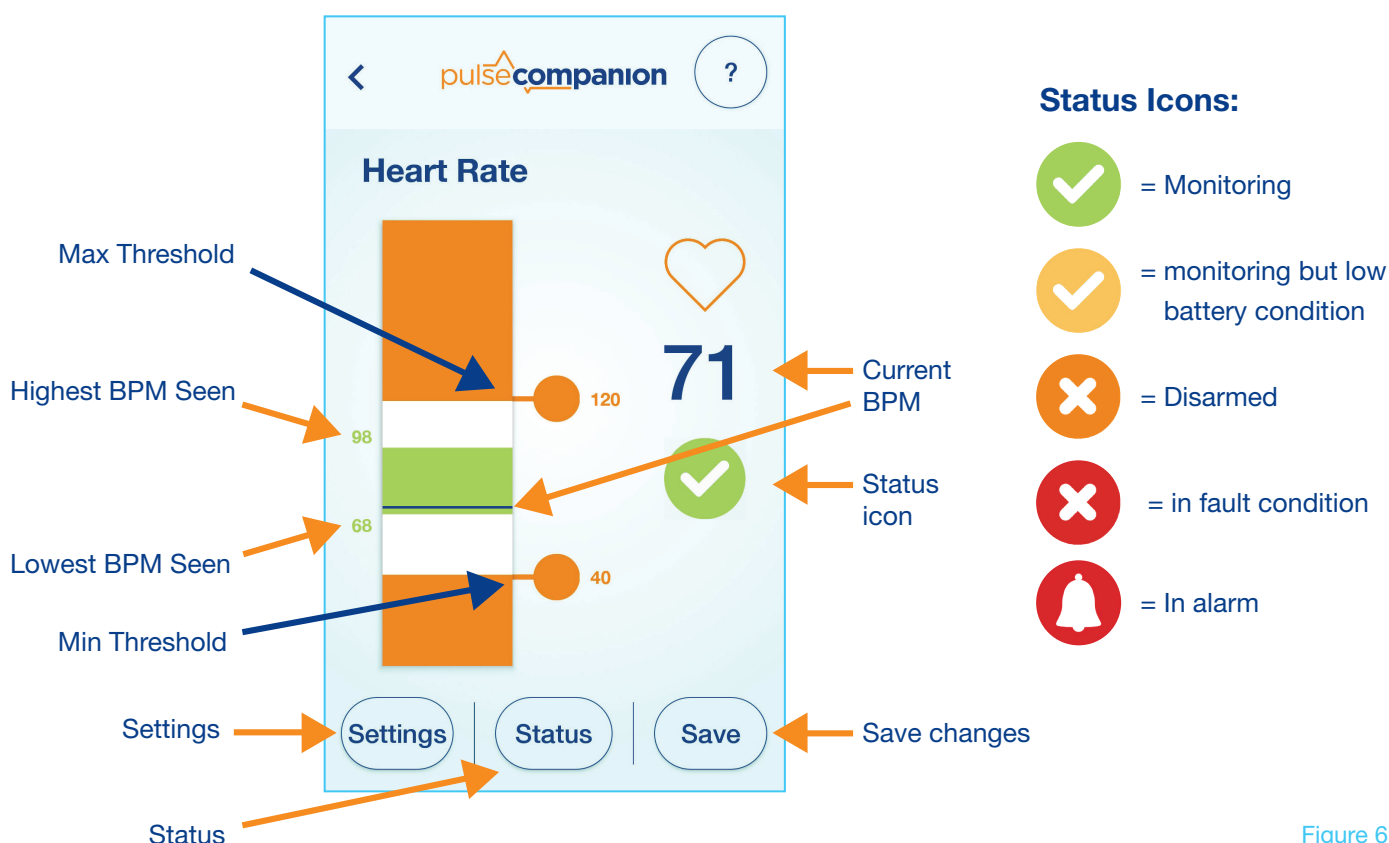


Figure 6

The black line moves up and down as the BPM reading changes.

The area in green shows the highest and lowest BPM readings that have been seen by the monitor (Since the last reset of the High & Low).

The two orange circles slide up and down allowing the thresholds to be adjusted.

Tapping either orange circle will bring up a box that will allow the exact threshold value to be entered manually.

**Please Note:** The lowest possible limit that can be set is 30, the highest is 199.

The green area can be reset by pressing the **"Reset High & Low"** button found on the **"Settings"** page (Page 13).

Current status will be represented by the icons in the table above, press **"Status"** for more details.

For Trouble Shooting Press

## Settings

After clicking the “**Settings**” button you will see the following information;

“**Nickname**”: This changes the name that is advertised when scanning for the device.

“**Armband Battery %**”: Displays the current battery level in the armband.

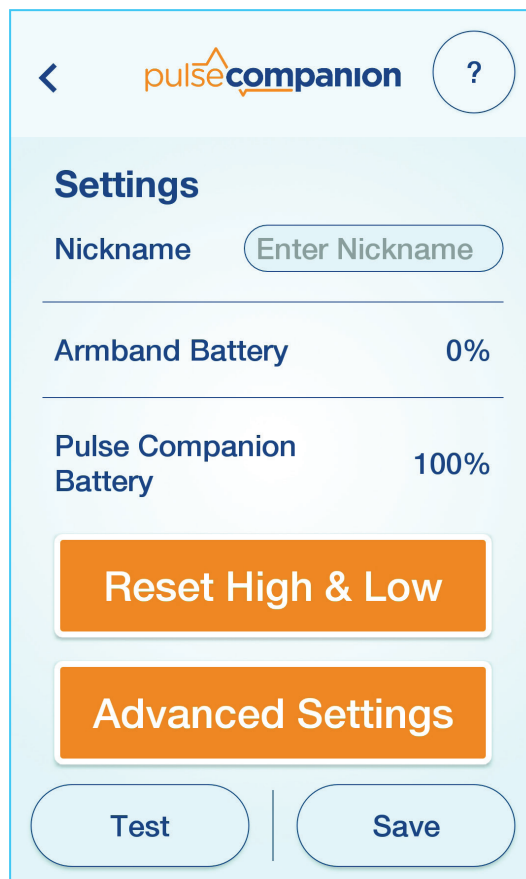
“**Pulse Companion Battery %**”: Displays the current % battery level in the Pulse Companion.

“**Reset High & Low**”: This resets the highest and lowest BPM readings seen by the Pulse Companion.

“**Advanced Settings**”: Contains additional configuration settings (see page 14).

“**Test**”: Sends out a test alarm to the pager for 3 seconds.

For Trouble Shooting Press 



The screenshot shows the 'Settings' screen of the 'pulsecompanion' app. At the top, there is a back arrow, the app name 'pulsecompanion', and a help icon (a circle with a question mark). Below the title 'Settings', there is a 'Nickname' field with a placeholder text 'Enter Nickname'. Underneath, there are two battery status sections: 'Armband Battery' showing '0%' and 'Pulse Companion Battery' showing '100%'. Below these are two large orange buttons: 'Reset High & Low' and 'Advanced Settings'. At the bottom, there are two light blue buttons: 'Test' and 'Save'.

## Advanced Settings

After clicking the “**Advanced Settings**” button you will see the following information;

**Please Note:** If a password is enabled, any changes here will require it to be entered

“**Radio Address**” changes the address the pulse companion transmits.

“**Radio Type**”: (Cannot be modified) Shows the radio type of the Pulse Companion.

“**Serial #**”: (Cannot be modified) Shows the devices serial number.

“**Alarm Period**”: Is the amount of time that the heart rate reading needs to be outside of the thresholds before the alarm is raised  
(This is set to 5 seconds by default).

“**Alarm Timeout**”: If enabled, when an alarm is triggered and left active, the alarm will automatically disarm its-self if ignored for 30 minutes.

“**Disarm Time**”: When an alarm is triggered then disarmed by pressing the ●●● button (or the Alarm Timeout timer has expired), the pulse companion will re-arm automatically after this period.

“**Always Advertising**”: This allows you to pair to the device at any time, without needing to press the ●●● button first.

“**Enable Password**”: If you wish to protect the min and max thresholds from being modified you can protect them with a 4 digit pin code.

“**Pair Armbands**”: This will open the paired armbands screen.

“**Device Info**”: Displays information about the Pulse Companion hardware.

“**Save**”: Pressing this will save any changes that are made to the pulse companion.

“**Quick Disconnect**”: Allows a quicker disconnect cycle for domestic settings (this is set to off by default).

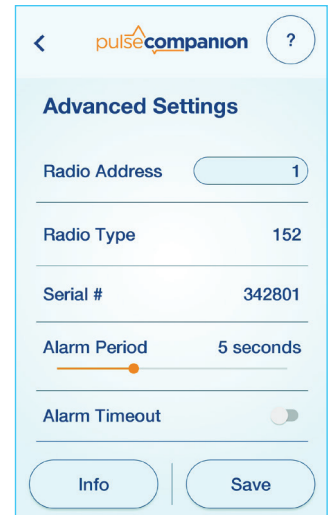


Figure 7a

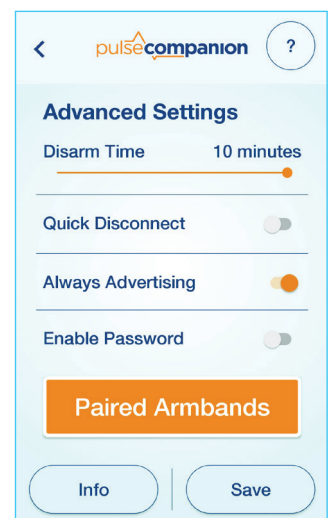


Figure 7b

For Trouble Shooting Press ?

## Pairing Armbands

The Pulse companion will seek out and connect to armbands that are chosen in its “**Paired Armbands**” list.

**Please note:** Alert-iT pre-pairs any armbands purchased with the Pulse Companion for you before shipment.

If however you have purchased additional armbands since shipment OR an armband needs replacement you can do so here.

In this “**Pair Armbands**” screen;

- An armband highlighted in green is currently in use and monitoring.
- Armbands highlighted in orange are already known to the Pulse Companion and will be paired when the green one is turned off.
- Armbands shown in black are turned on but as they are un-ticked they will not be paired to automatically.

### To add a new armband;

Turn it on and fit to your arm, then press the “**Refresh**” button. The new armband will appear in black. Tick the box next to its name then click “**Save**”.

**Additional Info:** We have limited the Pulse Companion to a maximum of three armbands. (Only one armband can be used at a time).

If the Pulse Companion finds two or more armbands are turned on when scanning that are pre selected in its list, it will connect to the one that was used last.

For Trouble Shooting Press

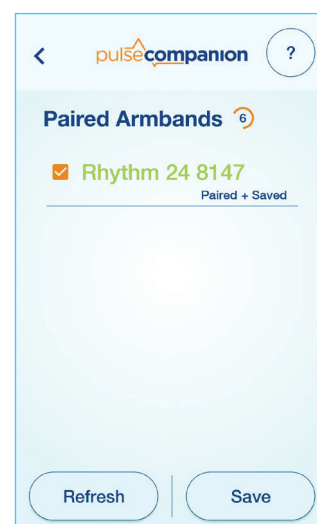


Figure 8

You should now have the armband fitted on the user and the Pulse Companion paired correctly and configured with suitable thresholds. The light on the Pulse Companion will be blinking green every 4 seconds and the monitor name will appear on the pager screen every 8 seconds.

If the armband now sends out a heart rate reading that is above or below the configured thresholds the Pulse Companion will raise an alarm, indicated by the status LED flashing red every second, the pager will alarm “**Urgent**”.

**When you attend to the user, press the ●●● button to “Disarm” the alarm for the “Disarm Time” (default = 10 minutes), this will temporarily reset the pager alarm.**

**To resume monitoring, press the ●●● button again, ensuring that the Pulse Companion LED is flashing green every 4 seconds.**

Alarm Code	Description
Urgent 00	BPM = 0 / invalid
Urgent 01	BPM below threshold
Urgent 02	BPM above threshold

#### PLEASE NOTE:

As a safety feature, after the “**Disarm Time**” period has expired, monitoring will resume automatically. If, when the monitoring resumes the heart rate reading is still outside of the thresholds, the alarm will be resent to the pager.

## Armband Placement

It is recommended to fit the sensor in a position where it is unlikely to be pressed into the skin if the user rolls over during the night. Suggested positions are the upper arm or calf, with the sensor positioned on the inside of the arm or calf so that the user can lie on either side without pressing the sensor into the skin.



## Changing the Armband due to low battery

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The battery in the armband should last 16 to 24 hours.

When the battery in the armband gets low, “**Fault 28**” will be shown on the pager screen.

1. Turn off the armband whilst still fitted by holding its big button for 5 seconds.
2. Remove the armband
3. Turn on and fit the new charged armband by holding its big button for 5 seconds.
4. Press the ●●● button on the Pulse Companion to reconnect it to the new armband.  
The fault should now clear from the pager.
5. Ensure Pulse Companion is monitoring by observing the LED flashing green every 4 seconds.

## Charging the Armband

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The armband is charged by placing it into the cradle and plugging it into the mains USB charger.

The main LED flashes red while charging. When the armband is fully charged the LED turns blue.

The charge time is approximately 2 hours.

## Turning the armband off

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If monitoring is not required for the rest of the day;

1. Ensure user is still wearing armband.
2. Turn the armband off by holding its big button for 5 seconds, remove when convenient.
3. “**Fault 26**” will now appear on the pager screen, press the “**Up**” arrow to silence the fault tune for 5 minutes.
4. Hold the ●●● button for three seconds on the Pulse Companion to acknowledge the fault alarm.  
The “**Fault 26**” on the pager will now clear after 6 minutes.

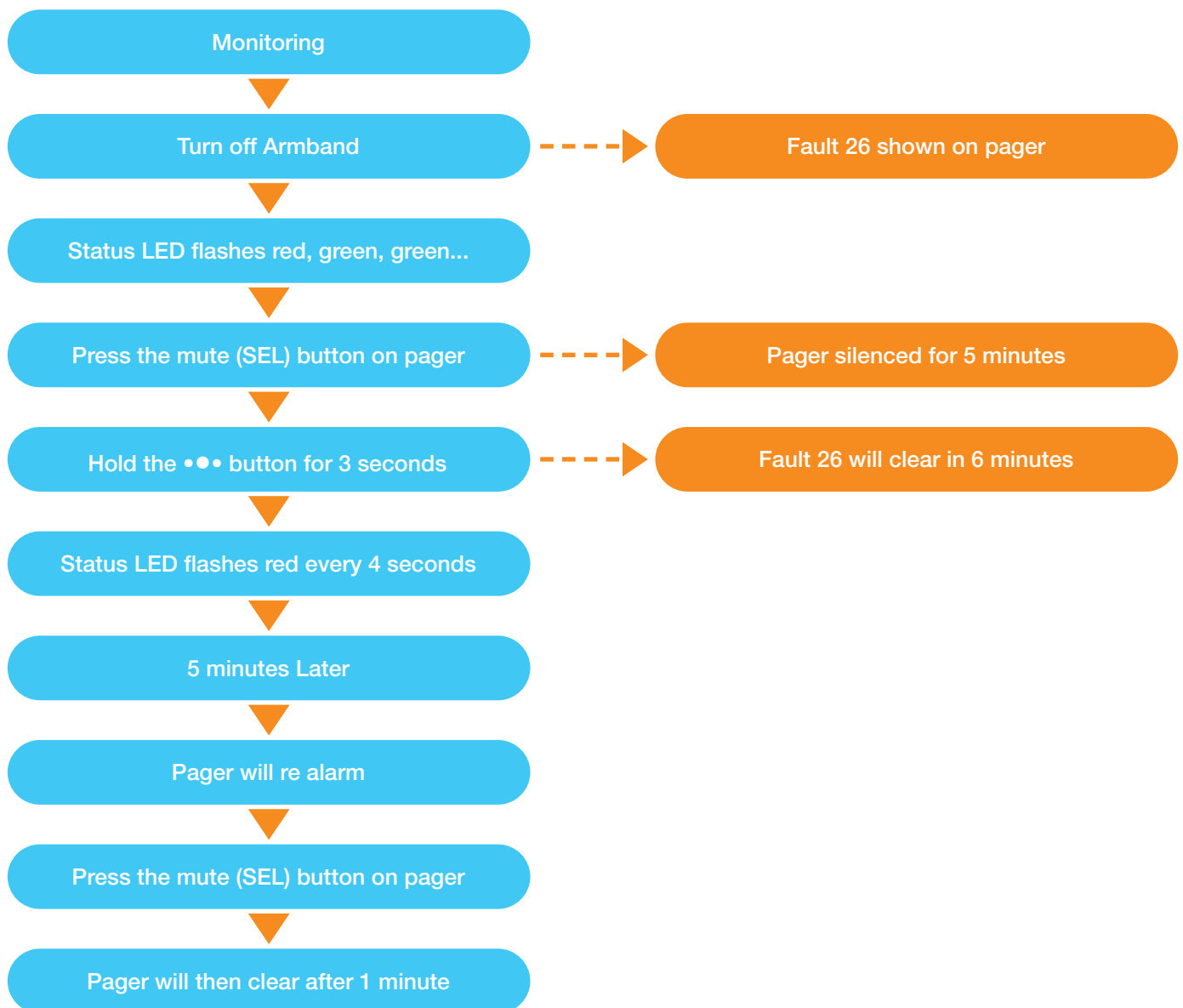
### PLEASE NOTE:

where no safety concerns around detecting Armbands being removed by user. For quick disconnect see page 14.

## Disconnecting armband

The armband should be turned off before removing it from the arm. (Removing the armband first will trigger an Urgent alarm and will require further steps to return the monitor to standby mode).

After turning the armband off, hold the ●●● button for 3 seconds, then wait 6 minutes for the fault to clear.



### PLEASE NOTE:

where no safety concerns around detecting Armbands being removed by user. For quick disconnect see page 14.

## Turning the Pulse Companion off

The Pulse Companion should be left in standby mode (LED flashing red every 4 seconds) when not in use. E.g. If not used during the day. See page 20 for permanent removal from service.

## Device Positioning

The Pulse Companion needs to stay within 10 meters of the armband so it should typically be carried on your person or left on a bedside table.

The pager needs to be kept within 450 meters of the pulse companion. This range can be extended using repeaters if required (contact your equipment provider for more details). The pager will display “RF Fail” when the device is out of range or switched off.

The ●●● button on the Pulse Companion needs to be pressed when attending alarms and when changing armbands, so the Pulse Companion will need to be kept accessible (e.g. not hidden in a locked draw).

The device can be left on a bedside table or mounted on the wall next to the bed. Or be carried on a person.

The Armbands battery typically lasts in excess of 12 hours, so one band is usually sufficient for overnight use, where it is charged again during the day. A second band can be used if round the clock care is required.



### PLEASE NOTE:

The power consumption in both devices will increase very slightly the further they are apart, so keeping both devices within a few meters of each other is preferable where possible to increase battery life.

## Wall Mounting

Remove the base by inserting a flat-headed screwdriver into the slot, apply gentle pressure and turn the screwdriver, the base will then pop away from the top.

The two holes in the base can then be used to attach the device to a wall or surface.

A wall mounting kit consisting of sticky pads, and two countersunk screws with wall plugs is included in the box.



Figure 10

## Removing the Pulse Companion from Service

The device can be turned off by holding the ●●● button for 8 seconds, the light will flash red rapidly when shutting down. Upon shutting down it will send out an “**Alarm Off**” call to the pager (This will stay on the pager permanently until the device is turned back on).

### IMPORTANT:

The pulse companion can be deactivated or removed from the pagers memory if required. Please contact support for assistance if needed.

## RF Fail: Radio Fail Alarm

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As the Pulse Companion is a “**Safelink**” enabled device, the pager is expecting to see its regular heartbeat signal every 8 seconds.

If the pager does not see any heartbeat signal for 2 minutes it will raise a Radio Failure alarm “**RF Fail**”.

This condition could occur if;

- ✔ The Pulse Companion is too far away from the pager (Range = ~450 meters)
- ✔ The Pulse Companion is turned off/Batteries flat.
- ✔ There is a hardware fault with either the Pulse Companion’s transmitter or the Pagers receiver.

## Pulse Companion Battery Low / Battery End;

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When the battery in the Pulse Companion gets ‘low’, the pager will display “**Batt Low**”.

When the battery in the Pulse Companion gets ‘very low’, the pager will display

“**Batt END**”. The batteries should be changed immediately.

## Fault 28: Armband Battery Low

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When the armband battery gets low the pager will display “**Fault 28**”. See page 17.

## Fault 26: Pulse Companion LED = RED/GREEN/GREEN....

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The pager will display “**Fault 26**” if;

- ✓ The armband is too far away from the Pulse Companion (Range = 10m).
  - Ensure the devices are within range of each other then press the ●●● button to reconnect.
- ✓ The armband has been turned off.
  - You should turn the armband back on and press the ●●● button to reconnect.
  - If the armband has been intentionally turned off, hold the ●●● button for 3 seconds to confirm this.

After 6 minutes the “**Fault 26**” will clear from the pager. The pager can be silenced in the meantime by pressing the up button.
- ✓ The armbands battery has run down.
  - Charge the armband.

See page 17 for more information.

## Fault 18: Armband Lockup Pulse Companion LED = RED/RED/GREEN....

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There is a safety feature in the Pulse Companion that will raise a fault condition if it thinks the armband has locked up, but is still giving out a ‘valid’ heart rate reading.

If the Pulse Companion detects the Armband has been sending out the same BPM reading for several minutes, the pager will display “**Fault 18**”.

- If the wireless heart rate sensor is pressed very firmly into the skin, the blood flowing underneath the sensor can be reduced and the sensor may struggle to read the users heart rate correctly. The sensor may continue to provide a constant heart rate reading that does not reflect the users actual heart rate.
- This problem typically occurs when the user rolls over and compresses the sensor against the skin during the night, but can be caused by the adjustable strap being fitted too tightly in extreme cases. Please try a different sensor position as per page 16.
- If the above has not resolved the fault ... Turn the armband off and on again or use a different armband if the issue persists. Please contact support your equipment provider for further advice.

## Pulse Companion 'Status' Light

The Pulse Companion has a single Red/Green light.

Light off	Device is powered down
Blinking red every 4 seconds	Device is in standby (Press ●●● button to start scanning)
Blinking green every second	Scanning for armbands
Blinking green rapidly	Armband discovered
Blinking green every 4 seconds	User is being monitored
Blinking red every second	Heart rate high / low alarm condition
Blinking red/green/red/green	Alarm has been disarmed
Blinking red/green/green	Fault 26 - Check Armband
Blinking red/red/green	Fault 18 - Armband Lockup

## Armband LED

Three red flashes	Charging
Blinking lue red	No heart rate detected
Red for 2 seconds	Unit is shutting down
Blue flashing	Normal operation

## Routine Testing

It is recommended to test the system daily by connecting to the Pulse Companion with the “**Alert-iT**” App and pressing the “**Test**” button. The pager should alarm for 3 seconds then reset or turn armband off and observe fault 26 shown on the pager.

## How to Clean the Devices

The Pulse Companion case is anti-microbial, for more information see; [www.addmaster.co.uk](http://www.addmaster.co.uk)

The products can be cleaned by;

- ✓ Wiping with cotton wool pads or cloth moistened (compressed until dripping stops) with a mild detergent (0.5% washing up liquid) solution or wetting with strong disinfectant (including Chlorine based cleaners).
- ✓ Wiping with a disposable 70% isopropyl alcohol wipe (or baby wipe).



## Changing Batteries in the Pulse Companion

The “**Settings**” screen displays the current battery life of both the armband and the Pulse Companion.

Turn the Pulse Companion off (See page 17), then remove the base of the monitor as shown in Figure 11. Please notice the polarity marked into the case when replacing the 2x AAA batteries.

After changing the batteries, the monitor **MUST** be turned on again by holding the ●●● button for 3 seconds.



Figure 11



Figure 12



## PLEASE NOTE::

While the pager is shipped with some charge in the batteries, it is recommended that the pager is charged fully before use. For full details about this pager see “[UH1068B P137 User Handbook.pdf](#)”.

To TURN ON the Pager, press and hold the “**Menu**” button for 3 seconds. The pager will beep and the screen shows the pager status information before entering its standby mode.



Figure 13

If the Pulse Companion is turned on, you will now see the name allocated to it flash on the screen every 8 seconds e.g. “**Pulse 01**” (This can be changed to the users name).

To TURN OFF the pager, press and hold the “**Menu**” button for 3 seconds to enter the “**Set-up & Edit**” menu. Use the right key to scroll to the menu item “**Turn Off**” Select “**Turn Off**” with the up key and the pager will turn off.

To snooze any active alarm / fault tones press the “**Up**” arrow, this will snooze any active alarm calls for 5 minutes.

See pager handbook for further details at;

[www.alert-it.co.uk/support/](http://www.alert-it.co.uk/support/)

Scosche “Rhythm +2.0” (Manufacturer of armband sensor) state:

“While our Rhythm +2.0 Heart Monitors are state of the art, there are inherent limitations with the technology that may cause some of the heart rate readings to be inaccurate. Some circumstances that can influence the readings are, but not limited to, the users physical characteristics, the fit of the device and the type and intensity of the exercise routine or activity.

Rhythm +2.0 heart monitor has a heart rate tracking feature that may pose risks to users with certain health conditions.

Consult your doctor prior to use if you: 1. Have a medical or heart condition; 2. Are taking photosensitive medication; 3. Have epilepsy sensitivity to flashing lights; 4. Have reduced circulation or bruise easily; 5. Have a musculoskeletal disorder. If you experience a medical emergency stop using the product and consult with a medical professional immediately. Scosche are not responsible for any health problems that may result from the use of the Rhythm +2.0 heart rate monitors. If you use the Rhythm +2.0 heart rate monitors, you agree that you do so at your own risk.

Prolonged contact with wearable devices may contribute to skin irritation or allergies in some users. To reduce irritation, follow three simple wear and care tips; 1. Keep it clean; 2. Keep it dry; 3. Don't wear it too tight; If you notice any skin irritation, remove the device. If symptoms persist longer than 2-3 days after removing the device, consult your doctor.”

Alert-iT endorse this statement and are also not responsible for any health problems.

The Pulse Companion is designed to detect a prolonged rise or fall in heart rate. Sudden spikes in heart rate may be missed. This may depend on the minimum or maximum thresholds set. For more information please contact our support team.

**Important Note:** The armband can give false heartrate readings when not worn and pointed at some surfaces. We have added two measures to help reduce the risk this can pose. The first is a 3 second timer that quickly alerts upon the armband being removed. The second will raise an alert if the armband continuously provides the same BPM reading for more than several minutes.



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

1. Ensure any power cables are routed to avoid a trip hazard.
2. Regularly check the power supplies for damage and potential shock risks.
3. Ensure, by testing, that the alarm is annunciated at the carer's location(s).
4. Clean and disinfect each item regularly in accordance with information on page 24.
5. Regularly test sensors as defined herein.
6. Use only the power supply and batteries recommended.
7. Operate power supply and charge pager away from direct heat and uncovered.
8. 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 pager in close proximity to sensitive electronic devices or devices which produce strong electromagnetic fields such as radio transmitters, mobile phones or power cables.
9. Only use the monitor with accessories approved for use with this product and only in accordance with instructions.
10. If the equipment is modified in any way, appropriate inspection and testing must be conducted to ensure continue safe use of the equipment.
11. 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 manufacturer for assistance with Risk Evaluation Tools.
12. Additional levels of mechanical protection may be needed for some disorders. Contact the manufacturers for advice.
13. The carer must never clear an alarm without checking the user's condition.
14. Some accessories are fitted with small screws and have plastic bags. Ensure these do not come into the possession of vulnerable people who might choke on them.

*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.*

## Pulse Companion Specification

<b>Weight:</b>	54g
<b>Material:</b>	White ABS Anti-microbial
<b>Dimensions (mm):</b>	100 x 45 x 15 (HxWxD)
<b>Batteries:</b>	2x AAA (LR03) Non-rechargeable
<b>Battery Life:</b>	~6 months
<b>Operating Temp:</b>	5°C to 35°C (Used Indoors)
<b>Humidity:</b>	90% max. Non-condensing
<b>Sealing:</b>	IP50 (not waterproof)

## Certification

The product complies with 93/42/EEC as a Class 1 Medical Device for use in a Home Healthcare environment.

Hereby, Alert-iT Care Alarms declares that this product is in compliance with the Radio Equipment Directive (2014/53/EU). The product contains a radio transmitter compliant to EN 300-220-2 operating at 434.075 MHz wideband, 10mW power (Class 8) less than 1% duty cycle (Class 2). The full text of the EU declaration of conformity is available at the following internet address;

[www.alert-it.co.uk/support/](http://www.alert-it.co.uk/support/)

The system complies with EN 60601 for Class 2 Electrical Safety and does not need a protective earth and Group 1 Class B for EMC in a Home Healthcare environment.



### PLEASE NOTE:

None of the components, including batteries should be disposed of as Domestic Waste.

For information on disposal contact Alert-iT.

## Pager Specification

<b>Power:</b>	1.3mm 9V DC
<b>Weight:</b>	161g
<b>Material:</b>	White ABS Anti-microbial
<b>Dimensions (mm):</b>	120 x 70 x 20 (HxWxD)
<b>Batteries:</b>	2x AA (HR6) Ni-MH Rechargeable 2500mAh
<b>Battery Backup:</b>	>72 hours*
<b>Charging time:</b>	12 hours
<b>Operating Temp:</b>	5°C to 35°C (Used Indoors)
<b>Humidity:</b>	90% max. Non-condensing
<b>Sealing:</b>	IP52 (not waterproof)
<b>Radio Range:</b>	450 meters+

## Certification

The product complies with 93/42/EEC as an essential accessory to a Class 1 Medical Device for use in a Home Healthcare environment .

Hereby, Alert-iT Care Alarms declares that this product is in compliance with the Radio Equipment Directive (2014/53/EU). The system has a radio receiver compliant to EN 300-220-2 'Class 2' operating at 434.075 MHz wideband. The full text of the EU declaration of conformity is available at the following internet address;

[www.alert-it.co.uk/support/](http://www.alert-it.co.uk/support/)

The system complies with EN 60601 for Class 2 Electrical Safety and does not need a protective earth and Group 1 Class B for EMC in a Home Healthcare environment.



### PLEASE NOTE:

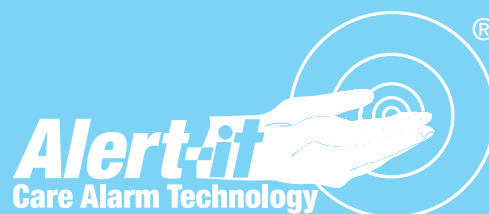
None of the comonents, including batteries should be disposed of as Domestic Waste.

For information on disposal contact Alert-iT.

Serial Number: \_\_\_\_\_

Test	Signature	Date
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#### Address:

Alert-iT Care Alarms  
Fernie House  
Coalville Business Park  
Jackson Street  
Leicestershire  
LE67 3NR

#### Call:

+44 (0) 1530 239 900

#### Visit:

[www.alert-it.co.uk](http://www.alert-it.co.uk)

#### Social:

 AlertitCareAlarms

 Alert\_iT\_Care

 Alert-iT

or join our supportive Epilepsy Forum

UH1482A Pulse Companion Handbook v13.0



LESS STRESS CARING