

Elpas3 Personal Safety Bracelet

5-WTG41100-0, 5-WTG41120-0 (Mother Tag), 5-WTG41102-0 (Security Band)

Installation Guide

Introduction

The Elpas3 Personal Safety Bracelet is an attractive bracelet that provides around-the-clock monitoring of medical patients and assisted living care residents who require added safety.

The bracelet bundles tri-tech (in Mother Bracelet – quad-tech, includes LF transmission) Real-Time Location System (RTLS) technologies to deliver precise real-time positioning data so that a host RTLS safety application or an integrated physical security platform can track the whereabouts of the individual anywhere within the facility.

Note: IR is optional. If irrelevant, users can deactivate IR functionality to conserve battery.

Elpas3 Personal safety Bracelet includes RF reception as well as transmission to allow two-way communication with Eiris. Eiris can acknowledge when it receives an RF message.

The bracelet features a large duress call button designed especially for senior citizens. Pressing the button causes the tag to transmit positioning data that identifies the person requiring assistance and the precise building location of the involving medical or safety incident for speedier and more effective response efforts.

Note: It is optional to replace the button cover of the tag with a standard plastic cover.

The Mother version also pairs with an Elpas Infant Protection Charm. With the press of the bracelet button, the infant charm flashes a color, indicating the two are paired. When a user presses the button again, the bracelet transmits an LF signal that tests if it matches with the Infant Protection Charm. Once the pairing is made, only the wearer of the Mother Bracelet can exit designated areas with the baby who wears the Infant Protection Charm with which it is paired.

The bracelet enables immediate near-exit location awareness for administering patient/staff escort procedures and for preventing unauthorized transfers into or out of protected building areas.



Product Specifications

RTLS Technologies	RF Reception and Transmission (433MHz); IR Reception (125KHz) ; LF Reception (125KHz) ; LF Transmission (in Mother Bracelet)
RF (Motion/Stationary)	Supervision messages every 10 seconds / 60 seconds
IR (Motion/Stationary)	Supervision messages every 10 seconds / 60 seconds
Supervised Events	LF Entry/Exit: Button Press/Release, Motion/Stationary, Low Battery
RF Under LF	Entry into LF: 3 transmissions (each @ 2ms in duration), 0.5secs apart; every 2 seconds. After 10 minutes under LF: Returns to 10 seconds while in motion
Power Source (recommended)	3.0V/560mAH lithium battery, CR 2450
Battery Life	12-36 months depending upon usage
LED Indicator	Low Battery (flashes every ten sec when below 2.6 Volts), Button Press (flashes three times), LF Field (flashes three times)
Tag & LF ID Codes	Factory-Programmed
Housing	IP65, Nylon Plastic
Weight	41.1 grams (1.45 ounces)
Dimensions (H x W x D)	46.9 x 41.0 x 16.8mm (1.84 x 1.61 x 0.65 inches)
Operating Environment	Temp: -30°C to 70° C (-22°F to 158°F) Humidity: 100% non-condensing
Management Software	Eiris
Regulatory	CE, FCC, IC compliant and certified
Warranty	1 year limited warranty

Product offerings and specifications are subject to change without notice.
Not all products include all features.

Accessories

Part Number	Description
5-BTE00433-1	Elpas Infant Protection Charm
5-PB063011	Disposable Secure Hospital ID Band (set of 50)
5-WTA90007	Canvas Wristband with Lock Pin (set of 5)
5-500130	Lock Pin Removal Magnet
5-WTD09012	Security Band (set of 5). To insert, remove band adapters
5-WTD09009	Band Lock Key (set of 5)
5-WTD09017	WTD No Button Cover (set of 5 with 20 screws)

Initial Activation

The bracelet is shipped from the factory in Sleep Mode to conserve battery power during shipping.

To activate the bracelet from sleep mode:

Button Press



Orient the tag front-cover side up. Next press & hold down the call button for at least 5 seconds.

If the wake-up process is successful the LED Indicator on the front of the bracelet will illuminate for 3 seconds.



Tag Cover Replacement

Place the bracelet back cover side up. Then Unscrew the 4 screws, flip the badge back side down, and remove the front cover.

If the PCB is removed from the back cover in the process, replace it. Make sure both pins inserted inserted in their respective hole from the bottom of the PCB.

Close the front cover so that the screw holes are aligned. Tighten the 4 screws snugly into place. Do not over-tighten as this may strip the case threads.



Attaching the Hospital Band Adapters

Place the bracelet back cover side up. Then Unscrew the 4 screws and remove the back cover.

Position the bracelet front cover side down. Next insert the two hospital band adapters into the grooved slots which are located on either side of the front cover.

Close the back cover such that the screw holes are correctly aligned. Tighten the 4 screws snugly into place. Do not over-tighten as this may strip the case threads



Battery Replacement

Change the bracelet's status in the host RTLS application to 'Inactive'.

Place the bracelet back cover side up. Then Unscrew the 4 screws and remove the back cover.

Slide the battery out from under the battery holder. Dispose of used battery in accordance with local regulations.

Replace the battery ensuring that the positive (+) side of the battery faces up.



Close the back cover such that the screw holes are correctly aligned. Tighten the 4 screws snugly into place. Do not over-tighten as this may strip the case threads.

Change the bracelet's status in the host RTLS application back to 'Active'.

Disabling IR

By default, IR functionality is on.

1. Press button B1 (the large one) for five seconds. The LED Flashes five times.
 - A single flash means IR is now on.
 - A double flash means IR is now off.
2. While the LED flashes, press the button again, three short presses, to change from the current state. The LED flashes again, as before, to indicate the new state.

Note: If you do not press three times in five seconds (while the LED flashes), the tag remains in the original state.

Mother-Baby Local Pairing

When bracelets with mother infant pairing capabilities (P/N 5-WTD41120-0) are used, then the pairing with an Elpas Charm (P/N 5-BTE00433-1) may be performed as follows:

1. Make sure the Mother Bracelet is within a 15cm Range of the charm.
2. Connect the Charm band.
3. When the Charm red LED flashes, press the button of the Mother Bracelet and hold it until the Charm green LED flashes. The LF IDs of both charms are paired.
4. For a match test, press the button of the Mother Bracelet and hold it until the Charm green LED flashes.

Note: To pair the The mother Bracelet and Infant Charm through EV2, see Eiris Configuration Guide, section 9.3.2.

⚠ Note: In case of a duplicate ID Trouble Alert, submit a support ticket with Elpas at www.elpas.com

The screenshot displays the 'Elpas Badge Alert [72232]' configuration window. The 'General' tab is active, showing fields for 'Name' and 'Type', both set to 'Elpas Badge Alert'. Below these are tabs for 'General', 'Status', 'Inputs', 'Outputs', and 'Schedule'. The 'Text Color' and 'BG Color' sections have color pickers. The 'Text' field is empty. To the right, there's a section for 'Automatically clear after (seconds)' with a text box, and checkboxes for 'Can Repeat Before Clearing', 'Suppress duplicate messages', and 'Use Eiris Location' (checked). Below this are four lists: 'Badges' (including PIRs, Prox, Shay Group 1, Shay Group 2, TBAs, Temperature Badge, WTA, WTDs, Mother6, Mother7, WTD 00BDC1, WTD 00C087), 'Readers' (including All Readers, AXS 50, BusB of ELC3, ELC3 lab group, Group ELC3, Group long range, Group of LF, LF Readers, NAT Devices, Standalone), 'Status' (including Status Types, All Status Types, Group of Status), and 'Events' (including Infant Band Attached, Infant Band Removed, Infant High LF Noise, Low Battery, Match Success, Mismatch Mother). A 'Filter' dropdown is set to 'Infant'. 'Apply' and 'Cancel' buttons are at the bottom right.

Note: To configure an Elpas Badge Alert for the Infant Protection Charm, see Eiris Configuration Guide, section 5.15

False Tamper Alerts

If you use a Security Band and it produces false Tamper alerts, clean the band thoroughly as dirt can act as a buffer between the contacts. If false Tamper alerts persist, replace the band.

Cleaning & Disinfection Procedures

Use an appropriate antibacterial disinfectant such as Dispatch® Hospital Cleaner Disinfectant with Bleach from Caltech Industries, Inc (<http://www.caltechind.com>) to clean the Bracelet.

Since 'Cleaning Procedures' may vary according to facility guidelines, thus the procedures given below are for illustrative purposes only:

Option 1 – Using Dispatch Disinfectant Spray

1. Lightly wet a disposable towel with Dispatch spray
2. Do not saturate the towel
3. Wipe the outer surfaces of the bracelet
4. Next wipe the bracelet with a dry disposable towel
5. Allow the bracelet to air dry
6. Return the clean bracelet to inventory or usage
7. Dispose of used towels per facility policies

Option 2 – Using Dispatch Disinfectant Towels

1. Open a new Dispatch pre-moistened towel
2. Wipe the outer surfaces of the bracelet
3. Next wipe the bracelet with a dry disposable towel
4. Allow the bracelet to air dry
5. Return the clean bracelet to inventory or usage
6. Dispose of used towels per facility policies

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Compliance with Standards

This device (5-WTG41100-0, 5-WTG41120-0 (Mother Tag), 5-WTG41102-0 (Security Band)) complies with FCC Rules Part 15 and with Industry Canada license exempt RSS standard(s). Operation is subject to two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference that may be received or that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Cet équipement a été testé et jugé conforme aux limites s'appliquant à un appareil numérique de classe B, conformément à la Partie 15 des réglementations de la FCC. Ces limites ont été élaborées pour offrir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle.

Cet équipement génère, utilise et peut émettre de l'énergie de fréquence radio et, s'il n'est pas installé et utilise conformément aux instructions du fabricant, peut provoquer des interférences dangereuses pour les communications radio. Toutefois, rien ne garantit l'absence d'interférences dans une installation particulière. **Si cet équipement provoque des interférences nuisibles au niveau de la réception radio ou télévision, ce qui peut être déterminé par la mise hors, puis sous tension de l'équipement, vous êtes invité à essayer de corriger les interférences en prenant les mesures suivantes:**

- Réorientez ou déplacez l'antenne réceptrice.
- Augmentez la distance qui sépare l'équipement et le récepteur.
- Branchez l'équipement à une prise d'un circuit différent de celui auquel est branché le récepteur.
- Consultez le revendeur ou un technicien radio/télévision expérimenté pour obtenir de l'aide.

Warning!

Changes or modifications to this equipment not expressly approved by the party responsible for compliance (Elpas Solutions Ltd.) could void the user's authority to operate the equipment.

Europe

This equipment complies with the RTTE requirements - Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999.

EN 300220, EN 301489, EN 50130-4, EN 61000-6-3, EN 60950-1.



Product Warranty

Elpas Solutions, Ltd. (Elpas or the Company), and its affiliates, warrants its products (hereinafter referred to as "the Product") to be free of defects in materials and workmanship under normal operating conditions and use for a period of one year from the date of shipment by Elpas. The Company's obligations shall be limited within the warranty period, at its option, to repair or to replace the defective Product or any defective component or part thereof. To exercise this warranty, the product must be returned to the manufacturer freight prepaid and insured.

This warranty does not apply to repairs or replacement caused by improper installation, Product misuse, failure to follow installation or operating instructions, alteration, abuse, accident, tampering, repair by anyone other than Elpas, external causes, and failure to perform required preventive maintenance. This warranty also does not apply to any products, accessories, or attachments used in conjunction with the Product, including batteries, which shall be covered solely by their own warranties, if any. Elpas shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, resulting from a malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Product.

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Elpas shall not, under any circumstances whatsoever, be liable for any inaccuracy, error of judgment, default, or negligence of Elpas, its employees, officers, agents, or any other party, or of the purchaser or user, arising from any assistance or communication of any kind regarding the configuration, design, installation, or creation of security system involving the Product, that being the responsibility of the purchaser or user. If Elpas is unable to make such repair or replacement, the company's entire liability shall be limited to the cost of a reasonable substitute product. Elpas shall not be responsible for any dismantling, installation, reinstallation, purchasing, shipping, insurance, or any similar charges.

Elpas shall have no liability for any damages, including without limitation, any direct, indirect, incidental, special, or consequential damages, expenses, costs, profits, lost savings or earnings, or other damages arising out of the use of the Product or the removal, installation, reinstallation, repair or replacement of the Product or any related events. In the event that there is any liability against Elpas, such liability shall be limited to the purchase price of the Product which amount shall be fixed as liquidated damages.

The purchaser and user understand that this Product may be compromised or circumvented by intentional acts; that the Product will not in all cases prevent death, personal injury, property damage, or other loss resulting from burglary, robbery, fire or other causes; and that the Product will not in all cases provide adequate warning or protection. The purchaser and user also understand that a properly installed and maintained alarm may reduce the risk of events such as burglary, robbery, and fire without warning, but it is not insurance or a guarantee that such events will not occur or that there will be no death, personal injury, property damage, or other loss as a result of such events.

By purchasing the Product, the purchaser and user shall defend, indemnify and hold Elpas, its officers, directors, affiliates, subsidiaries, agents, servants, employees, and authorized representatives harmless from and against any and all claims, suits, costs, damages, and judgments incurred, claimed, or sustained whether for death, personal injury, property damage, or otherwise, because of or in any way related to the configuration, design, installation, or creation of a security system involving the Product, and the use, sale, distribution, and installation of the Product, including payment of any and all attorney's fees, costs, and expenses incurred as a result of any such events.

The purchaser or user should follow the Product installation and operation instructions and test the Product and the entire system at least once each week. For various reasons, including but not limited to changes in environmental conditions, electric, electronic, or electromagnetic disruptions, and tampering, the Product may not perform as expected. The purchaser and user are advised to take all necessary precautions for the protection and safety of persons and property.

This statement provides certain legal rights. Other rights may vary by state or country. Under certain circumstances, some states or countries may not allow exclusion or limitation of incidental or consequential damages or implied warranties, so the above exclusions may not apply under those circumstances and in those states or countries.

Elpas reserves the right to modify this statement at any time, in its sole discretion without notice to any purchaser or user. However, this statement shall not be modified or varied except by Elpas in writing, and Elpas does not authorize any single individual to act on its behalf to modify or vary this statement.

Any questions about this statement should be directed to Elpas.



W.E.E. Product Recycling Declaration

For information regarding the recycling of this product, you must contact the company from which you originally purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste - Directive 2002/96/EC Waste Electrical and Electronic Equipment.