

Elpas Personal Safety Bracelet

P/Ns: 5-WTD40100-0, 5-WTD40101-0, 5-WTD41100-0 and 5-WTD41101-0

User Guide

Introduction

The Personal Safety Bracelet is a wrist worn Active RFID Tag that provides around-the-clock monitoring of medical patients and assisted living care residents who require added safety.

The bracelet bundles triple-tech 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.

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.

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



It is important that you understand, and follow the instructions in this document. Should you have any questions, please contact your Elpas support representative before proceeding with the installation, operation or maintenance of these products.

Product Specifications

Signaling Technologies	RF (433MHz) IR (800nm) LF (125KHz)
RF (Motion/Stationary)	Supervision messages every 10 seconds / 60 seconds
IR (Motion/Stationary)	Supervision messages every 10 seconds / 60 seconds
RF Under LF	6 IR/RF transmissions (each @ 2ms in duration), 0.5secs apart; every 2 secs after 10 mins returns to 10 secs when in motion
Supervised Events Button Press/Release Motion/Stationary Low Battery	3 RF/IR transmissions (each @2ms in duration), 400ms apart
Power Source	3.0V/560mAH lithium battery, CR 2450
Battery Life	12-36 months depending upon usage
LED Indicator	Low Battery, Button Press, LF Field
Badge ID	Factory-Programmed ID
Housing	IP65, Nylon Plastic
Weight	35 grams (1.23 ounces)
Dimensions (H x W x D)	46.9 x 41.0 x 18.9mm (1.84 x 1.61 x 0.74 inches)
Operating Environment	Temp: 0°C to 50° (0°F to 122°F) Humidity: 100% non-condensing
Management Software	Eiris 4.6 (or higher)/Eiris Configurator 4.8 (or higher) ELC Programmer V2.0
Standards	IC, FCC & CE compliant
Warranty	1 year limited warranty (excluding battery)

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

Compatible Accessories

Part Number	Description
5-PBA90003	3.0V/560mAH lithium battery, CR 2450 (20 pcs)
5-WTD09001	Standard Wristband (set of 5)
5-WTD09003	Hospital Band Adapters (set of 5)
*5-PB063011	Disposable Clincher Wristband (set of 50)
*5-WTA90007	Reusable Medical Grade Wristband with Lock Pin (5 pcs)
5-500130	Lock Pin Removal Magnet

*Requires Hospital Band Adapters for use with Bracelet P/Ns 5-WTD40000-0 & 5-WTD41000-0.

Transmission Rates in LF Zones

Moving Bracelet

LF Response Time: Onboard LF receiver polls every 0.6 sec to check if the bracelet is in a LF zone.

Transmission Rate: Bursts of 6 IR/RF supervision transmissions (each transmission about 2ms in duration), 400ms apart. If the bracelet stays in a LF zone, then repeated at 2 seconds intervals.

Transmitted Message Type: IR/RF Data Message includes ID code of LF Exciter. Motion bit, M=1.

Motionless Bracelet

LF Response Time: Onboard LF receiver polls every 15 seconds to check if the badge is in a LF zone.

Transmission Rate: 6 IR/RF supervision transmissions (each transmission about 2ms in duration), 0.4 seconds apart: If the bracelet stays in a LF zone, then repeated at 15 second intervals.

Transmitted Message Type: IR/RF Data Message includes ID code of LF Exciter. Motion bit, M=0

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 both of the following described methods can be used:

Button Press



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

Tamper Band Method



Touch the two ends of the tamper wrist band together.

Pin Shorting



Place the bracelet back cover side up. Using the tips of a metal tweezers, touch the two metal contacts simultaneously.

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



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'.

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.

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 High-Risk Security 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 sensor
4. Next wipe the sensor with a dry disposable towel
5. Allow the sensor to air dry
6. Return the clean sensor 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 sensor
3. Next wipe the sensor with a dry disposable towel
4. Allow the sensor to air dry
5. Return the clean sensor to inventory or usage
6. Dispose of used towels per facility policies

Standards Compliance

This device complies with Part 15 of the FCC Rules and RSS-210 of Industry and Science Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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.

Warning!

Visonic Technologies is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Product Warranty

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echnologies Ltd. (VT 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 VT. 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 VT, 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. VT 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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VT shall not, under any circumstances whatsoever, be liable for any inaccuracy, error of judgment, default, or negligence of VT, 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 VT is unable to make such repair or replacement, VT's entire liability shall be limited to the cost of a reasonable substitute product. VT shall not be responsible for any dismantling, installation, reinstallation, purchasing, shipping, insurance, or any similar charges.

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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 VT, 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.

VT 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 VT in writing, and VT 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 VT. 3/0



W.E.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.