

# Elpas Lone Worker Transmitter

P/N: Honeywell Version

## User Guide

### Introduction

The Elpas Lone Worker Transmitter is a commercial-grade Active RFID Tag that provides discreet around-the-clock wireless location based tracking of staff members.

The Transmitter delivers precise real-time location data that identifies the individual in trouble and the location of the evolving security incident. This data is used by RTLS applications and security platforms for dispatching emergency response teams.

The Transmitter includes two user programmable wireless emergency call buttons on either side of the unit for manual duress alerting. Pressing the both push buttons simultaneously will trigger the transmitter to emit a duress alert.



(Actual product may vary from photo)

Product Specifications	
<b>RTLS Technologies</b>	RF (433MHz) LF (125KHz)
<b>RF (Motion/Stationary)</b>	Supervision messages every 10secs /60secs
<b>RF Under LF</b>	6 RF transmissions (each transmission @ 4ms in duration), 312.5ms apart
<b>Event Messages</b> Button Press/Release Low Battery	3 RF transmissions (each transmission @4ms in duration), 312.5ms apart
<b>Power Source</b>	CR2450 Lithium Battery
<b>Battery Life</b>	18 to 36 months, depending on usage
<b>LED Status Indicator</b>	Button Press/Release, Motion/Stationary Entering/Exiting LF Field, Low Battery
<b>Badge ID</b>	Unique, factory-programmed ID
<b>Construction</b>	Nylon Plastic (IP67)
<b>Dimensions (H x W x D)</b>	8.3 x 4.4 x 1.7 cm (3.3 x 1.7 x 0.7 inches)
<b>Weight</b>	40 grams (1.4 ounces)
<b>Mounting</b>	Lanyard worn
<b>Operating Environment</b>	Temp: -30°C to 70°C (25°F to 159°F) Humidity: 95% non-condensing
<b>Management Software</b>	Eiris V4.8 or higher Elpas Configurator V4.8 or higher
<b>Regulatory</b>	IC, FCC & CE compliant
<b>Warranty</b>	1 year limited (excluding battery)

Product offerings and specifications are subject to change without notice..

Accessories	
<b>5-PBA90003</b>	CR2450 Lithium Battery (tray of 25pcs)
<b>5-WTA90002</b>	Pendant Lanyard (set of 5)

### Usage Considerations

It is important that you read, understand, and follow the instructions in this user guide.

Should you have any questions, please contact your local Elpas support representative before proceeding.

### Package Contents

The Lone Worker Tag is shipped with the following items:

- One Lone Worker Tag
- One Pendant Lanyard
- One CR2450 Lithium Battery

## Initial Activation & Software Enrollment

The Lone Worker Transmitter is shipped from the factory in **Sleep Mode** to conserve battery power during transit.



1. Prior to initial usage, remove the Activation Label and then press simultaneously both of the Tag's emergency call push buttons for at least 7 seconds.



This action serves as a means of Awakening the Transmitter from Sleep Mode as well as enrolling its unique factory installed **ID Number** (a six-digit hexadecimal value) into the Host RTLS Application.

If the Enrollment process was successful the Transmitter's Red LED Status Indicator will alight for 3 seconds.

(Refer to your Eiris Configuration Guides for additional details.)

## Safety Issues

It is the responsibility of the system installer to ensure that the appropriate staff members are suitably trained in the usage and maintenance of the Lone Worker Transmitter.

Additionally, **Supervisory Alerts** should be configured in the Host RTLS Application to notify staff members that the detection Transmitter is:

- In a low battery condition or
- Not properly transmitting location and status data.

**Note:** The above configured **Supervisory Alerts** should be triggered periodically to ensure system integrity.

## Alert Testing

Pressing either the left or right emergency call push-button individually will trigger the Lone Worker Transmitter to emit a Test Alert Message so that the host RTLS application can confirm that the unit is functioning properly.

## Battery Replacement

1. Temporarily suspend usage of the Transmitter in the host RTLS application.
2. Place the transmitter on its right side. Remove the 2 screws that holds the battery cover to the body of the Transmitter

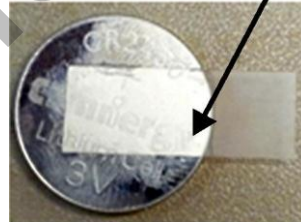


3. Utilize the pull tab to slide the battery out of the Transmitter from the battery. Dispose of the used battery in accordance with local regulations.

**CAUTION!** After removing the battery please wait at least 30 seconds before installing the replacement battery so as to not cause damage to the tag or to negatively affect the tag's operational performance.

4. Before inserting a new battery into place, Place a new Battery Pull Tab onto the (+) positive side of the battery.

Battery Pull Tab



5. Slide the battery back into the transmitter.

**IMPORTANT!** Ensure that the positive (+) side of the battery faces up and that the pull tab is fully accessible.

6. Close the side-cover such that the screw holes are correctly aligned. Tighten the 2 screws snugly into place. Do not over-tighten as this may strip the case threads.
7. Reactive the Transmitter in the Host RTLS Application.

### RF Transmissions in LF Fields

#### For Moving Transmitter

**LF Response Time:** Onboard LF receiver polls every 250ms to check if the Transmitter is in a LF zone

**Transmission Rate:** 3 RF event transmissions (each transmission about 2ms in duration), at 0.4 second intervals.

If the Transmitter stays in a LF zone, then repeated at 2 seconds intervals.

**Transmitted Message Type:** RF Data Message includes ID code of LF Beacon. Motion bit, M=1.

#### For Motionless Transmitters

**LF Response Time:** Onboard LF receiver polls every 250ms to check if the Transmitter is in a LF zone

**Transmission Rate:** 3 RF supervision transmissions (each transmission about 2ms in duration), 0.4 seconds apart:

If the Transmitter stays in a LF zone for more than 10 minutes, then repeated at 15 second intervals.

**Transmitted Message Type:** RF Data Message includes ID code of LF Beacon. Motion bit, M=0

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### Cleaning & Disinfection Procedures

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

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

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## FCC & IC Compliance Standards

This device 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, and (2) this device must accept any interference that may be received or that may cause undesired operation.

For Industry Canada: 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 of:

- 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

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.

This equipment complies with FCC and IC RF radiation exposure limits set forth for an uncontrolled environment.

## Company Contact

Elpas, Inc.  
Westford, Massachusetts (USA) - Tel: 1-800-223-0020

## EU Declaration of Conformity

This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC

## Product Warranty

Elpas Solutions, Ltd. (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.

ELPAS MAKES NO EXPRESS WARRANTIES EXCEPT THOSE STATED IN THIS STATEMENT. ELPAS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ELPAS'S SOLE RESPONSIBILITY FOR WARRANTY CLAIMS IS LIMITED TO REPAIR OR TO REPLACE AS SET FORTH IN THIS STATEMENT.

Elpas shall have no liability for any death, personal injury, property damage, or other loss whether direct, indirect, incidental, consequential, or otherwise, based on a claim that the Product failed to function. However, if Elpas is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, the company's maximum liability shall be limited to the purchase price of the Product, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive liability of Elpas.

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.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.