

# Elpas3 Personnel Identity Badge

P/Ns: 5-PBB00433, 5-PBB00433-1, 5-PBB00433-2, 5-PBB00433-3, 5-PBB00433-5, 5-PBB00433-7, 5-PBB00433-E, 5-PBB00433-G, 5-PBB00433-K, 5-PBB01433-E

## User Guide

### Introduction

This Guide provides basic instructions for the successful usage of the Personnel Identity Badge

**CAUTION!** Reasonable effort was made to ensure that the specifications and other information in this guide are accurate and complete at the time of its publication. Nonetheless, all information contained in this document is subject to change at any time without prior notice. Any modifications to this equipment without prior written consent of Elpas Solutions Ltd. will void all warranties including the pertinent regulatory certifications and as such revoke your authority to operate this product. Furthermore unauthorized modifications may also result in damage to this device and may cause a safety hazard to the users.

### Product Description

The Elpas Personnel Identity Badge is a supervised triple-tech, 2-way, Active RFID Tag that provides wireless real-time monitoring and tracking of workers that may be at-risk of workplace related attacks or injuries.

The unique form factor of the badge allows it to serve as a photo ID personnel badge. When you insert it into its corresponding card holder (sold separately), you can bundle the badge with ISO standard credentials and wear it horizontally (landscape format) or vertically (portrait format). Additionally, the badge can also serve as a proximity ID key with legacy access control installations.

The badge emits EMI safe RF (433MHz) receives IR (800nm) data messages and then, and receives Ack (Acknowledge) RF messages that confirm transmission success. This data enables real-time sub-room level location awareness of the protected employee, which Elpas Safety, Security & Visibility Solutions or other management and building access control systems can use.

The badge also features dual call-button duress alerting and an onboard LF (125 KHz) receiver that enables instantaneous near-exit location detection for staff/patient/guest escort to administer procedures in addition to triggering near-exit access control alert response protocols.

The Personnel Identity Badge is IP66 rated, cleanable with alcohol based disinfectants and is powered by a field-replaceable lithium battery.



### Supported Event Transmissions

Personnel Identity Badges supports LF, Battery, Motion, Motionless, Exit from LF and two discrete Button Press supervision events; designated B1 & B2:

#### Button Press Events

Upon a button press, an RF message is transmitted (about 1ms in duration) and receives an RF Ack message when the system receives the transmission. Without Ack, the badge retries to transmit four more times, 50ms apart prior to deactivation B1=1 and B2=1.



When the buttons are released, B1=0 and B2=0. Another RF message is transmitted until it receives the Ack message or tries five more times. In the steady state (no button press / button release) B1=0 and B2=0.

**IMPORTANT:** The badge does not support the transmission of two simultaneous button press supervision events.

### Event Transmission Rates in LF Zones

#### Moving Badge

**LF Response Time:** Onboard LF receiver polls every 250ms to check if the badge is in an LF zone.

**Transmission Rate:** One RF supervision transmission (about 1ms in duration). If does not receive Ack transmission, retries four times, 50ms apart.

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

#### Motionless Badge

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

**Transmission Rate:** One RF supervision transmission (about 1ms in duration). If does not receive Ack transmission, retries four times, 50ms apart.

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

## Badge Activation - Initial Usage

- Orient the badge back-cover side up. Then press & hold down the larger of two emergency call buttons for at least 6 seconds



- If the activation process was successful the red LED on the front of the badge will illuminate for about six seconds.



## Attaching a Paper Photo ID

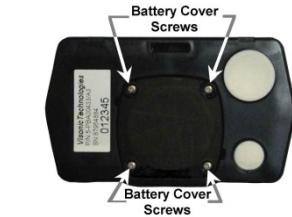
- Ensure that the photo ID paper label is trimmed so that it lies flatly (picture/text side up) in the recessed area on the front of the badge.



- Peel off the protective layer on the front and rear of the label cover (P/T: 5-PBA90004).



- Finally, remove the label cover's adhesive backing and carefully place it (adhesive edge down) onto the badge so that it neatly holds the paper label correctly in place.



- Separate the battery cover from the back of the badge by inserting a small screw driver into either of the square slots adjacent to the battery cover. Gently lever the screw driver outwards until the battery cover releases from the badge.



- Remove the worn-out battery from the badge and dispose of it according to manufacturer's instructions.

**⚠ 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.

**⚠ Caution!** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

- Insert a new battery into the compartment, ensuring that the positive (+) side of the battery faces up.
- Align the battery cover so that its flat edge fits correctly into the badge's back cover prior to seating the cover into place.
- Once the battery cover is in place, tighten its 4 screws into place.
- Finally, in Eiris, re-enable the Badge.

## Cleaning & Disinfection Procedures

Elpas recommends that you use an appropriate antibacterial disinfectant such as Dispatch® Hospital Cleaner Disinfectant with Bleach from Caltech Industries, Inc. (<http://www.caltechind.com>) to clean the Elpas Personnel Identity Badge Badges.

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

- Lightly wet a disposable towel with Dispatch spray
- Do not saturate the towel
- Wipe the outer surfaces of the badge
- Next wipe the badge with a dry disposable towel
- Allow the badge to air dry
- Return the clean badge to inventory or usage
- Dispose of used towels per facility policies

### Option 2 – Using Dispatch Disinfectant Towels

- Open a new Dispatch pre-moistened towel
- Wipe the outer surfaces of the badge
- Next wipe the badge with a dry disposable towel
- Allow the badge to air dry
- Return the clean badge to inventory or usage
- Dispose of used towels per facility policies

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## Product Specifications

Item	Description
RTLS Technologies	RF (433MHz) IR (800nm) LF (125KHz)
RF Upon Entry into LF area	One RF transmission (about 1ms in duration). If does not receive RF Ack transmission, retries four times, 50ms apart.
LF Reciever	LF Beacon 250ms
RF under LF	2 seconds; after 10 minutes, returns to 10 seconds /60 seconds (motion/stationary)
Time to Idle	10 seconds
Supervision Events (Button Press/Release, LF, Tamper Low Battery, Motion/Motionless)	One RF supervision transmission (about 1ms in duration). If does not receive RF Ack transmission, retries five times, 50ms apart.
Power Source	Recommended: 3V lithium battery, CR2450. <b>⚠ Caution! Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.</b>
Average Battery Life	3.0 years
LED Status Indicator	Low Battery: Flashes once every 10 seconds Button Press/Release: Flashes once Upon Entry into LF Area or Exit out of LF Area: Flashes twice
Badge ID	Unique factory-programmed ID
Construction	Black ABS plastic (IP66)
Dimensions (H x W x D)	5.0 x 8.3 x 0.9 cm (2.0 x 3.27 x 0.35 inches)
Weight	32 grams /1.128 ounces
Operating Environment	Temp: -10°C to 70°C (14°F to 159°F).....Humidity: 100% non-condensing
Management Software	Eiris Software V5.0.1 or higher
Regulatory	FCC, CE, & IC compliant
Warranty	1-year limited (excluding battery)

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

## Product Ordering Matrix

Part Number	RF (433 MHz)	RF Reception	IR (800nm)	LF (Reception 125KHz)	Last LF (Memory)	RF Motion (Seconds)	LF/RF Motionless (Seconds)
5-PBB00433	Yes	Yes	Yes	Yes	No	60	60
5-PBB00433-1	Yes	Yes	No	Yes	No	60	60
5-PBB00433-2	Yes	Yes	Yes	Yes	No	60	60
5-PBB00433-3	Yes	Yes	No	No	No	60	60
5-PBB00433-5	Yes	Yes	Yes	Yes	No	60	60
5-PBB00433-7	Yes	Yes	No	No	No	60	60
5-PBB00433-E	Yes	Yes	Yes	Yes	No	60	60
5-PBB00433-G	Yes	Yes	Yes	Yes	No	60	60
5-PBB00433-K	Yes	Yes	Yes	Yes	No	60	60
5-PBB01433-E	Yes	Yes	Yes	Yes	No	60	60

## Compatible Accessories

Part Number	Description
5-PBA90001	Personnel Identity Badge - Clip Attachment (25 pcs)
5-PBA90002	Open Front Card Holder, Horizontal/Vertical, (5 pcs)
5-PBA90004	Personnel Identity Badge - Label Covers (25 pcs)

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## Compliance with 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

(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 utilisé 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.

**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.

### WEEE 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.

