

Introduction

This installation guide provides basic instructions for common Wireless Input Module installation scenarios.

CAUTION! It is important that you read, understand, and follow the instructions in this document. If you have questions, call your local Elpas support representative.

Product Description

The Elpas Wireless Input Module is a supervised, RTLS transmitter for the wireless monitoring of single or multi-level staff/patient/resident call points, pull switches in addition to other ancillary facility monitoring inputs.

The module emits EMI safe 433MHz RF messages that enables the reporting and monitoring of 'State' changes from up to two dry contact inputs to be sent via the Elpas Ethernet RTLS infrastructure to a host Elpas RTLS application or to other management monitoring solutions.

The option LF-enabled version (P/N: 5-TBA00433) also includes a 125KHz low frequency LF receiver that enables local cancellation when using an Elpas Handheld LF (P/N: 5-HLA00125).

Constructed of white polycarbonate plastic, the module can be surface mounted onto solid walls and ceilings or easily located above dropped (false) ceilings. The module supports remote device supervision, features an onboard visual status indicator and may be powered by either one field-replaceable lithium battery or by a single 1/2AA battery.

Inputs Interface

The Wireless Input Module contains a three-position terminal block (J1) for connecting two analog call/monitoring inputs.

Tamper Switch

The Wireless Input Module contains a spring loaded tamper switch that when pressed, generates a 'State' message that is useful for registering the monitoring point in the host application

Once registered, the tamper switch can also be used as an input trigger for a device supervision tamper alert indicating non-authorized attempts to remove the device's cover.

Power

The Wireless Input Module can derive its power from either one CR2430 type lithium battery (factory supplied) or alternatively from a single 1/2AA battery.

IMPORTANT: The Wireless Input Module as well as all the input devices to be monitored should be powered down when wiring in order to prevent accidental shorts/spikes to cause damage to any of the devices.

Supported Event Transmissions

The Wireless Input Module can transmit state changes from up to two dry contact inputs (as a button press event message) to the host RTLS server.

- Input 1 – Button 1 Event
- Input 2 – Button 2 Event

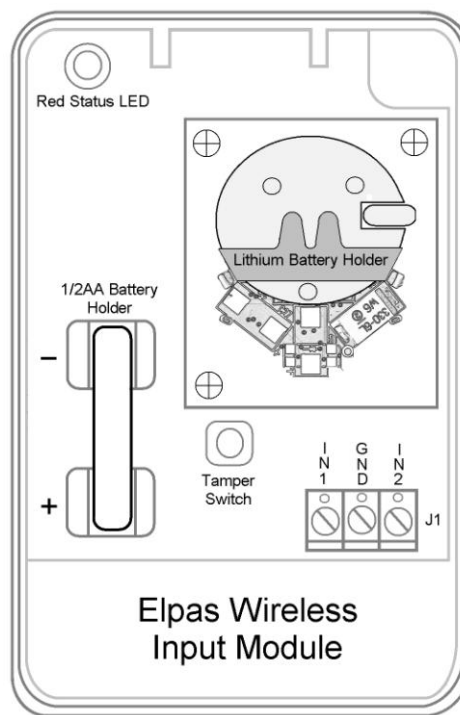
The input module can also transmit a state change from the tamper switch (as a motion event message) indicating a non-authorized attempt to remove the module's cover.

- Tamper Switch – Motion Event

Note: Whenever a state change is detected the input module automatically transmits 4 RF event messages 400ms apart with each transmission about 2ms in duration).

Status Indicator

The Wireless Input Module has a Red Status LED that flashes once/second signaling either a low voltage condition or that the device is transmitting.



Lithium Battery Installation (supplied with device)

Before inserting the CR2430 type lithium battery into the module's battery holder, confirm that the holes of the battery Isolator are aligned with the contact pins. Then ensure that the positive (+) side of the battery faces the PCB.

1/2AA battery Installation (optional)

Insert the 1/2AA battery into the module's battery clip, so that the (+) and (-) markings on the battery coincide with the markings printed on the circuit board to the right of the battery clip.

IMPORTANT: Inserting the 1/2AA battery improperly into the battery clip may cause damage to the Wireless Input Module.

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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!

Elpas 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

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.

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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.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.