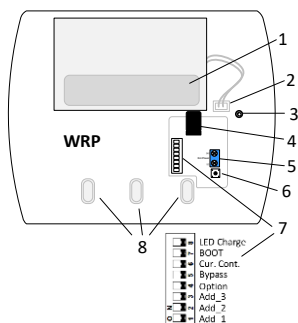
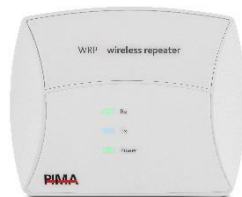


# WRP

## Installation Instructions

English,



1	Backup Battery
2	Battery Connector
3	Tamper switch
4	Power Supply Connector
5	Power Supply Terminals
6	Test/Enrollment Button
7	Settings DIP Switches
8	Mounting Holes

## WRP Wireless Repeater

The WRP is a FastLink technology wireless repeater for the **FORCE Series** and **VISION** intruder alarm systems. The WRP is designed to extend the range and signal quality of PIMA's wireless detectors and peripherals. The repeater can be used to remedy transmission problems caused by excessive noise or other interference, or by long distances between the peripherals and the control panel.

The WRP is powered by a power supply and is backed up by rechargeable 18650, 3.6V, Lithium-ion batteries.

The WRP can alert on jamming and has a back tamper switch. For enrollment information, see the alarm system's Programming guide (P/N 4410526).



**Cautions: the WRP is based on wireless (RF) transmissions. Any wireless transmission can be subject to RF interference and, although unlikely, this interference may cause the WRP to not operate as intended. RF transmissions will be attenuated by tinted glass, in wall isolation with metal foils, metal objects, etc.**

## Technical specifications

- Frequency (MHz):
  - WRP143: 433.92
  - WRP187: 868.95
- Backup battery: 1X 18650, 3.6V, Lithium-ion
- Battery backup time: up to 24 hours
- Wireless range: up to 500m in open space<sup>1</sup>
- Power Supply:
  - Input: 100-240V
  - Output: 12VDC, 1A
- Dimensions: 15 X 12 X 3 cm
- Weight: 245gr
- CE compliance
- Operating temperature: -10 to +50 °C
- Humidity (max.): 93% R.H., Non-condensing.

## Content of the product package

- WRP Repeater
- Power Supply
- This guide

## Warnings

- Use only the provided power supply. Use of unauthorized power supply may damage the WRP.
- The WRP does not have mains on/off switch. Make sure that the access to the mains outlet is never obstructed.
- Do not use extension cords to plug in the power supply.
- Do not connect the repeater to electrical outlets on the same circuit as large appliances.
- Do not connect the repeater to electrical outlets controlled by wall switches or automatic timers.
- Do not mount the repeater inside a metal enclosure or on metalized wallpaper.

<sup>1</sup> Walls or metal may reduce actual operating range

## Mounting guidelines


- Mount the repeater at least three meters away from any electrical device that generates “noise”.
- The repeater must not be exposed to direct heat sources or direct sunlight.
- Contact with spraying or dripping water and aggressive liquids must be avoided.
- The AC outlet for the power supply should be located near the repeater and be easily accessible.

## How to mount and connect the WRP

Mount the WRP box on a flat surface. Follow the next steps.

1. Insert a slotted screwdriver to the niches at the bottom and remove the cover.
2. Set the WRP Dip switch; see instructions below.
3. Connect the power supply to its socket. Alternatively you can connect the power supply wires to the *Ext. Power* terminal block (no. 5 in the figure above). Observe polarity!
4. Connect the battery connector (no. 2 in the figure above).
5. Set the repeater in the control panel (see how in the Programming guide) and check the LEDs; see below.
6. Close the box.

## The Dip switches

No.	Label	Options (ON)																																				
1-3	Add 1-3	Set the repeater's address (1-8 <sup>1</sup> ) using dip switches 1-3: <div style="text-align: center;"> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>#1</td><td>#2</td><td>#3</td><td>#4</td><td>#5</td><td>#6</td><td>#7</td><td>#8</td><td></td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Add_3</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Add_2</td> </tr> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Add_1</td> </tr> </table> </div> <div style="text-align: center; margin-top: 10px;">  <p><b>The repeater's address must be the same as the WRP number in the control panel.</b></p> </div>	#1	#2	#3	#4	#5	#6	#7	#8		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Add_3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Add_2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Add_1
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4	Option	Not in use in this model																																				
5	Bypass	Allows powering-up the WRP on battery power only; <b>must be in Off position.</b>																																				
6	Cur. Cont.	Battery charging control: <ul style="list-style-type: none"> <li>• Switch On: 400mA</li> <li>• Switch Off: 200mA (recommended)</li> </ul>																																				
7	BOOT	Firmware update (for PIMA use only); <b>must be in Off position.</b>																																				
8	LED Charge	The red Power LED will blink to indicate when the battery is being charged																																				

## The LEDs

label	Color and state	Description
Rx	Green, blinking	Reception
Tx	Purple, blinking	Transmission
Power	Green, solid	Powered by AC power
	Green, blinking	Powered by Battery power
	Red, blinking	Battery charging

## Lithium-ion battery safety guidelines



- Do not use the battery for any purpose other than backing up the WRP.
- Do not throw the battery into fire, nor heat the battery.
- Do not disassemble nor modify the battery.
- Do not keep the battery in a temperature higher than 60° Celsius.
- Do not expose the battery to water or moisture.
- Do not solder leads directly to the battery body.
- Do not short the battery +/- terminals with any kind of metal.
- Do not reverse charge the battery.
- Do not puncture the battery with any object.

<sup>1</sup> The maximum number depends on the *FORCE*'s version