2-Way Wireless Receiver

Installation Instructions

Model: WRF743 / WRF786

1. Description

The *FORCE* 2-Way Wireless Receiver is a unit that is used to enable the reception of wireless devices when connected to the *FORCE* security panel.

Features Include

- Support for PIMA's range of wireless sounders, slim keypads, keyfobs and detectors
- Up to 2 2-Way wireless slim keypads
- Up to 2 sirens
- Up to 32 zones
- Up to 16 multi-function keyfobs
- Rolling code technology
- Signal jamming detection
- Threshold level calibration
- Back and front tamper detection
- Nominal center frequency: 433.92 MHz; 868.65 MHz
- Up to 8 receivers per *FORCE* system (consult PIMA for availability)

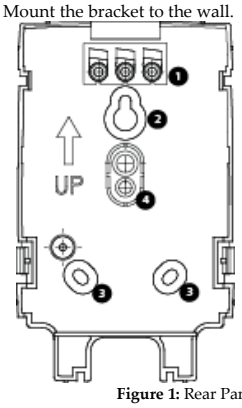
2. Installation

Step 1: Selecting the Mounting Location

- Do not install the Receiver close to metal objects and RF generating devices such as TV sets or computers.
- Mount the Receiver at a height of at least 1.5 m (5 ft) above the floor.
- Mount the Receiver relatively close and central to the transmitter locations.

Step 2: Mounting the Receiver

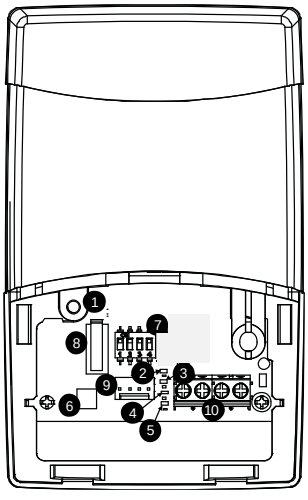
1. Separate the mounting bracket from the main unit.
2. Use the mounting bracket as a marking template.
3. Tear off screw caps, as needed for covering front screw hole.
4. Mount the bracket to the wall.



1. Screw cap
2. Upper mounting hole
3. Lower mounting holes (optional)
4. Back Tamper

Figure 1: Rear Panel

Step 3: Wiring the Receiver



1. Optional screw hole (used to fasten front and back covers)
2. Red LED
3. Green LED
4. Yellow LED
5. Blue LED
6. Reset button
7. DIP switch
8. Box tamper
9. Bus Connector
10. 4-pin terminal block

Figure 2: Receiver Layout (cover off)

Receiver's Terminals	Force's Terminals	Description
AUX RED	2+	+13.8V power VDC
COM BLK	1-	0V common
BUS YEL	4	Data bus connection (second from right)
BUS GRN	3	Data bus connection (most right)

See the following figure.

Note: the Force – Receiver connections are not one-to-one! They are different from other Force peripherals.

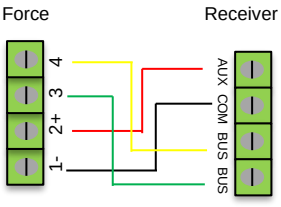
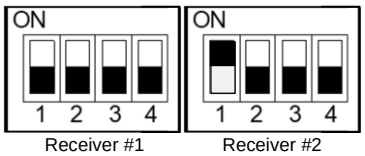


Figure 3: Force -Receiver Connections

Notes:

1. *The maximum wire run permitted is 300 meters (1,000 feet) for the total bus wiring. For the required wiring gauge information, refer to the d FORCE Installer Manuals.*
2. *When closing the cover use a screw cap located on the rear side to cover the closing screw.*

3. DIP Switch Configuration



SW1 – SW3	Three switches to set ID of the Receiver
SW4	Must be set to OFF.

4. LEDs Indication

LED	Description
All LEDs ON	Receiver reset
All LEDs ON except for GREEN LED FLASH	Receiver peripheral initialization
RED LED ON	BUS communication OK
RED LED BLINKS slow	In Prog Mode OR Bus Communication trouble
RED LED ON and GREEN LED FLASH	Communication via RF channel
RED LED BLINKS fast	Receiver in bootloader mode
YELLOW LED BLINKS fast	Radio is in update mode

5. Programming steps

The following instructions define the main programming steps to the *FORCE* panel using the wireless receiver. Two receivers can be allocated to the *FORCE* *.

1. Define the receiver ID using switches [1]-[3].
2. Configure the Receiver in the system (Installer menu – Configuration > Peripherals > Wireless Receivers > Number of Receivers)
3. View and record the noise level of the receiver (User Menu>System options > Information > Peripherals > Wireless Receiver]
4. Enroll wireless device (Installer menu – Configuration > Peripherals > Wireless Receivers > Enroll)
5. For each wireless device enrolled, configure its parameters. See Force and Vision programming manual and the manual for each wireless device.
6. Perform communication test between the expander and the device . for detectors: Installer menu > Diagnostics > Zones Test. For other devices, test each one according to its functionality.

* Consult PIMA for availability

6. Technical Specifications

Parameter	Description
Operating Voltage	13V +/- 10%
Current Consumption	Typical: 40 mA; max 65 mA
Power Output	10 mW (max)
RF Immunity	According to EN50130-4
Range (L.O.S)	300 meters
Operating temperature	-10°C to 55°C (14°F to 131°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Size	125.5 X 78 X 25.5 mm (4.94 X 3.07 x 1 inch)
Frequency	868.65 MHz, 433.92 MHz

7. Ordering Information

Model	Frequency	P/N
WRF743	433MHz	8600230
WRF786	868MHz	8600231

UKCA and CE RED Compliance Statement:

Hereby, PIMA declares that this equipment is in compliance with the essential requirements of the UKCA Radio Equipment Regulations 2017 and CE Directive 2014/53/EU.

For the UKCA and CE Declaration of Conformity please refer to our website: www.pima-alarms.com

Limited Warranty

PIMA Electronic Systems Ltd. does not represent that its product may not be compromised and/or circumvented , or that the Product will prevent any death, personal and/or bodily injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. The User understands that a properly installed and maintained equipment may only reduce the risk of events such as burglary, robbery, and fire without warning, but it is not insurance or a guarantee that such will not occur or that there will be no death, personal damage and/or damage to property as a result.

Read this guide in its entirety before attempting to program or operate your system. Should you misunderstand any part of this guide, please contact the supplier or installer of this system.

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Complies with:EN50131-3,EN50131-5-3 Grade2 Environmental Class II, PD 6662:2017

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