



PRELIMINARY

INSTALLATION INSTRUCTIONS

WYRELESS PORTABLE READER (WPR)

 **RECOGNITION** SOURCE

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INSTALLATION INSTRUCTIONS

Wyreless Portable Reader (WPR)

NOTE: These instructions are for installing a Wyreless Portable Reader (WPR), a component of a Wyreless Access System. After completing this installation refer to the “Configuring and Operating the Wyreless Access System” manual.

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1. Wyreless Access™ System Components

1.1 Overview

Every access control system that uses Wyreless Access™ contains two different types of modules (Figure 1-1):

- at least one Wyreless Panel Interface Module (WPIM), and
- at least one Wyreless Access Point Module (WAPM)

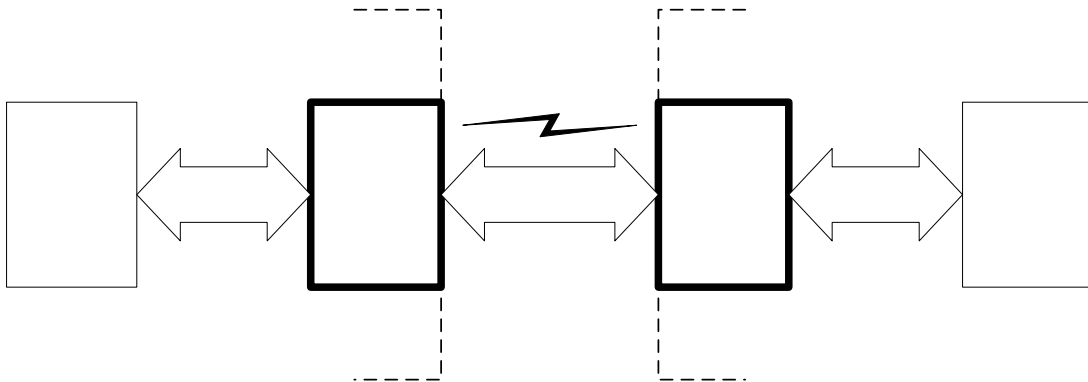


Figure 1-1 – Wyreless Access System Block Diagram

Recognition Source's product line contains several different expressions of each module.

The WPIM is wired to the access control panel and ideally is installed very close to the access control panel. The WPIMs installation location is determined by the location of the WAPMs with which it will communicate using RF.

The WAPM is installed at the access point where access will be controlled and/or monitored. Depending on the application and which WAPM is used, some wiring at the access control point may be required.

Regardless of which WPIM or WAPM module is used, the communication link between the WPIM and WAPM is always RF.

This manual describes the installation of a Wyreless Portable Reader (WPR) which is a WAPM.

1.2 Wyreless Portable Reader (WPR) Components



Figure 1-2 – Wyreless Portable Reader (WPR) with Proximity Reader

The WPR includes 4 components:

- WPR card reader (Figure 1-2),
- WPR on/off switch (Figure 1-2),
- WPR battery pack (Figure 1-3),
- WPR RF transceiver (Figure 1-4).



Figure 1-3 WPR Battery Pack



Figure 1-4 – WPR RF Transceiver

2. Installing the Wyreless Portable Reader (WPR)

Since the WPR is portable, no installation is required. The WPR is normally shipped with a battery installed and therefore it is ready for configuration right out of the box and the rest of this section can be skipped. If a battery is not installed or needs replacing, please follow the instructions in the following sections:

2.1 Tool Required

- Phillips head screwdriver

2.2 Determining the Best WPIM and WPR Locations

Proper selection of the WPIM mounting location relative to the use area of the WPR insures reliable RF communications.

Since the WPR is portable, determining best location for the WPIM is very important in achieving optimum performance.

The WPIM manual contains a section for determining the best location for the WPIM.

The maximum distance between WPIM and a WPR is 200' horizontally when on the same floor inside a building that uses normal building construction materials. Never operate the WPR more than one (1) floor from the WPIM antenna. If this is the case then reduce the horizontal distance to 100' maximum. The maximum distance is 1000' for a line of sight installation.

2.3 WPR Battery Installation/Replacement

- 2.3.1 Use the Phillips screwdriver to remove WPR cover. There are 4 cover screws, one in each corner (Figure 1-2).
- 2.3.2 If a Battery Pack is being replaced, locate the used Battery Pack (Figure 2-4), disconnect the used Battery Pack (Figure 2-2), remove the used Battery Pack from its Velcro Strips (Figure 2-1)

2.3.3 Attach a new Battery Pack to the housing using the Velcro strips (Figure 2-1& Figure 2-2).

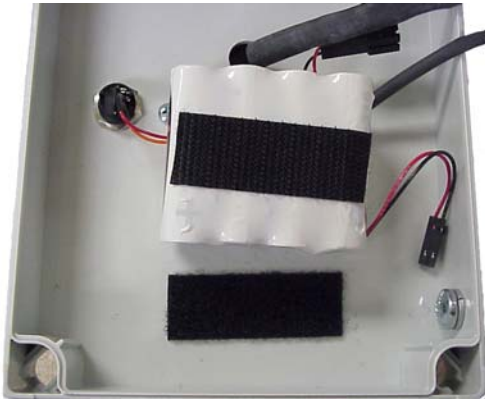


Figure 2-1 – Battery Pack Velcro Strips



Figure 2-2 – Battery Pack Positioned

2.3.4 Connect the battery connector to the mating connector coming from the transceiver board (Figure 2-3 & Figure 2-4).

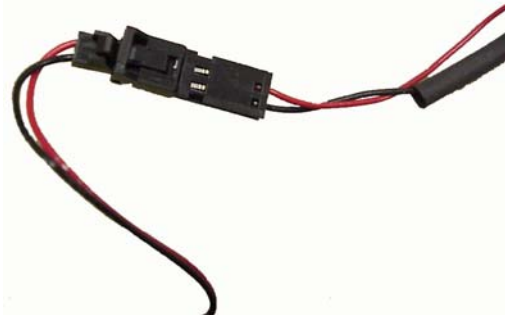


Figure 2-3 – Battery Connector



Figure 2-4 – Battery Pack Connected

2.3.5 To continue to use the WPR on the same RF channel and with the same WPIM, re-install the cover, making certain that no wires are pinched. The cover should go on easy with no interferences. Replace the 4 cover screws, one in each corner (Figure 1-2).

If the WPR needs to be re-linked or the RF channel needs to be changed, before re-installing the WPR cover, follow the instructions in the Configuring & Operating a Wyreless Access System manual.

This completes the battery installation/replacement for the WPR. Do not turn on the WPR yet, this will be done after the Wyreless Panel Interface Module (WPIM) is installed and during system configuration.

If the Wyreless Panel Interface Module (WPIM) is not installed, now is the time to install it, please refer to the WPIM Installation Manual.

If the Wyreless Panel Interface Module (WPIM) is installed, then you are ready to configure your Wyreless Access System, please refer to the Configuring & Operating a Wyreless Access System manual.



3. Contacting Recognition Source

For questions regarding Wyreless Access TM:

(630) 762-4450
(630) 762-4444 fax

4. FCC Compliance & Warnings

4.1 FCC Compliance

- This device has been authorized by the FCC Rules and Industry Canada.
- This device complies with the limits for a Class B digital device and a Class B intentional radiator, pursuant to Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- The Wyreless Access System Component must be installed by qualified professionals or contractors in accordance with FCC part 15.203, Antenna Requirements.
- Do not use any antenna other than the one provided with the unit.

4.2 Warnings

- RF Exposure - To comply with FCC RF exposure requirements for mobile transmitting devices this transmitter should only be used or installed at locations where there is normally at least a 20 cm separation between the antenna and all persons.
- Do not co-locate and operate in conjunction with any other antenna or transmitter.
- Use only the Battery Pack specified in this instruction manual.
- Do not subject Battery Pack to fire or high temperatures.
- Do not attempt to recharge, short out or disassemble Battery Pack.
- Follow local regulations for alkaline battery disposal.
- Immediately remove the batteries and discontinue use if:
 - the product is impacted after which the interior is exposed, or
 - the product emits a strange smell, heat, or smoke.
- Changes or modifications not expressly approved by Recognition Source could void the users authority to operate the equipment.

5. Revision History

Version	Date	Changes
x001	11/25/03	preliminary in house release for comments
X001.1	12/01/03	changed to plastic WPR handle