RD-200

Standalone RFID proximity reader

Installation guide

The RD-200 is a standalone RFID (Radio Frequency Identification) proximity reader, designed to connect to PIMA's HUNTER-PRO Series intruder alarm systems and be used to arm and disarm the panels.

The users can arm the systems to all arming modes: Full, "Home 1" and "Home 2"[1].

The RD-200 connects to the panel over the panel's BUS.

The RD-200 box has a built-in tamper switch.

⚠️ **The RD-200 cannot be used to arm/disarm partitions!**

Mounting guidelines

1. Remove the decorative cover (it is supplied inserted half way).
2. Mount the reader's box. See Figure 1. Screws are not supplied.
3. Place the decorative cover on the reader and push it all the way.

If you need to remove the cover after installation, insert a flat screwdriver between the reader's top and the mounting surface and rotate the screwdriver so it pushes the cover away from the surface.
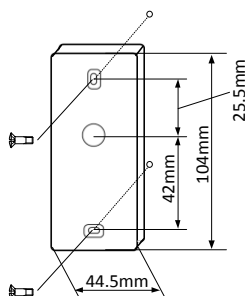

Figure 1.   Mounting diagram

Connecting the RD-200

Connect the RD-200 to HUNTER-PRO Series' BUS and TMPR input, as described in the next table and diagram.

BUS			Tamper switch	
"KEYPAD" terminals	RD-200		"KEYPAD" terminals	RD-200
1 -	Brown		TMPR1	White
2 +	Red		GND (-)	Black
3 IN	Orange			
4 OUT	Yellow			

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[1] In system versions up to 6.32 the RD-200 can only be used to arm to full mode and the LEDs don't give indication on the zone status
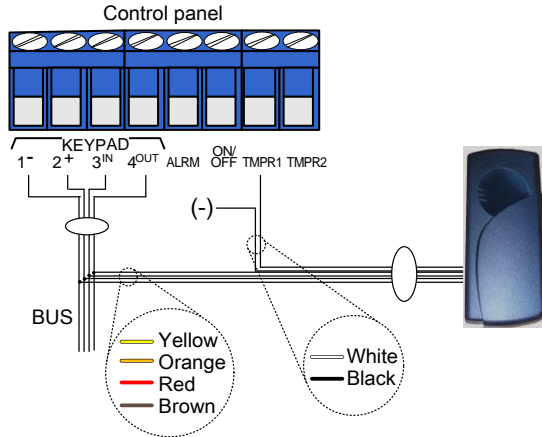

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Figure 2.   Connection diagram

LEDs

The RD-200 has 3 LEDs: Red, Yellow & Green. Each LED blinks during the Exit delay time of the arming mode it indicates on, and illuminates when the panel is armed to that mode. See the next table for details.

LED	Blinking	Illuminating
Red	Exit delay in progress	The panel is armed to full mode
Yellow	• Slow: exit delay in progress • Fast: when the panel is disarmed, at least one of the zones is open (not ready to arm)	The panel is armed to "HOME 1" mode
Green	Exit delay in progress	The panel is armed to "HOME 2" mode

Faults

When there is no communication with the control panel:

1. The RD-200 does not respond to tag/keychain a approximating;
2. All three LEDs blink slowly.

Mode of operation

As mentioned, the RD-200 is used for arming and disarming the control panel. Like most RFID proximity readers, the RD-200 is triggered when holding an RFID tag/keychain close to it.
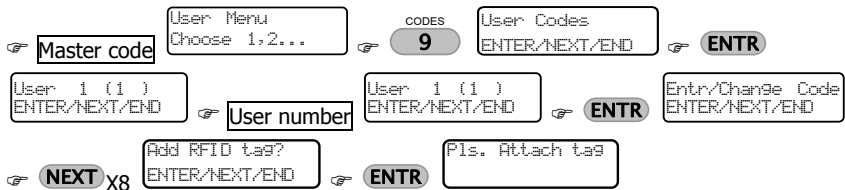
Upon reading the tag, the reader sends its ID number[2] along with the operation mode to the control panel.

The different arming modes (Full, Home 1, Home 2) are determined by the time span the card is placed near the reader:

Arming mode	Instructions
Full mode	Bring the card/keychain near the reader briefly, just until the Red LED will start blinking and verification beep will be sounded. The Exit delay will start running.
	The system's keypads will respond normally and display the Exit delay countdown. As soon as the panel becomes armed, the RD-200 Red LED will stay ON.
"Home 1" partial arming	Bring the card/keychain near the reader (a verification beep will be sounded) and wait for 2 seconds until the Yellow LED will start blinking. The Exit delay will start running[3]. The system's keypads will respond normally and display the Exit delay countdown. As soon as the panel is armed, the RD-200 Yellow LED will stay ON
"Home 2" partial arming	Bring the card/keychain near the reader (a verification beep will be sounded) and wait for 4 seconds until the Green LED will start blinking. The Exit delay will start running[3]. When the panel is armed, the RD-200 Green LED will stay ON.
Disarming	Bring the card/keychain near the reader briefly until a beep is sounded

Adding RFID tag/keychain to a user

To assign an RFID tag or keychain to a user, to be used with the RD-200, follow the next steps:

☞ Master code | `User Menu` `Choose 1,2...` | ☞ CODES **9** | `User Codes` `ENTER/NEXT/END` | ☞ **ENTR**

`User 1 (1 )` `ENTER/NEXT/END` | ☞ User number | `User 1 (1 )` `ENTER/NEXT/END` | ☞ **ENTR** | `Entr/Change Code` `ENTER/NEXT/END`

☞ **NEXT** X8 | `Add RFID tag?` `ENTER/NEXT/END` | ☞ **ENTR** | `Pls. Attach tag`

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[2] This feature can be used for Access Control applications.

[3] The Exit delay can be cancelled when arming to the Home modes. See the Installer guide of the Hunter-Pro Series for details.

Bring the RFID tag/keychain near the RD-200. The operation should be indicated by a

beep and the massage: `TAG Received! Press END` ☞ **END**
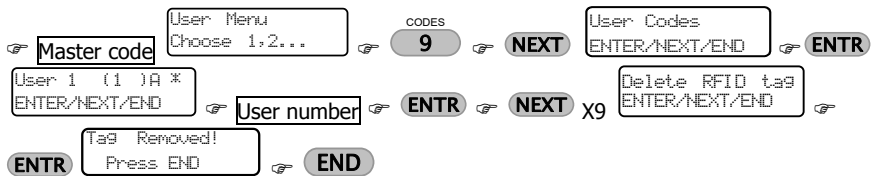
The letter "A" in the user code screen indicates that an RFID tag/keychain is assigned to

that user. For example, `Tina   (1  )A* ENTER/NEXT/END`

See the Hunter-Pro Series User guide for complete information.

Deleting RFID Tag

Follow the next steps to delete a tag/keychain from a user:

☞ Master code `User Menu Choose 1,2...` ☞ CODES **9** ☞ **NEXT** ☞ `User Codes ENTER/NEXT/END` ☞ **ENTR**

`User 1 (1 )A * ENTER/NEXT/END` ☞ User number ☞ **ENTR** ☞ **NEXT** X9 `Delete RFID tag ENTER/NEXT/END` ☞

ENTR `Tag Removed! Press END` ☞ **END**

Specs

Operation Voltage: 12V

Current Consumption: 18ma~25ma

RFID standard: EM-4100

Environmental requirements

Humidity: 75%, relative, non-condensed;

Temperature: ~ -10 +45 ºC

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