1830 Series Access Control Board

The 900 MHz wireless board replaces the 14-pin aux terminal on the access control system’s board. The existing 16.5 VAC 20 VA aux terminal input power transformer is required and is reconnected to the 10-pin terminal #1-#2. Antenna is REQUIRED.

 installation Procedure

- Approximate range between the two units is up to 1500 ft direct-line-of-sight or less -
- Unplug all power from 1830 series. Discard removable green aux terminal. Plug 14-Pin aux terminal on board.
- Connect existing aux power transformer from discarded green aux terminal into #1 & #2 baseboard terminal.
- Wire baseboard RELAY 2 to main terminal P3 & P14 (assuming 1830 series has already been completely setup).
- Connect antenna to baseboard and install antenna where desired.
- Plug RF remote module onto tracker expansion board and secure with 4 screws (assuming tracker board has already been established).
- Jumper output relay to a separate board. Power transformer must connect to tracker board.
- ANTenna to RF SECURE.
- Set NET ID’s to “A” on baseboard AND RF remote module. Set CH’s to “4”.
- Set tracker expansion board address to “3”.
- Power both systems up (1830 series baseboard and tracker expansion board’s LEDs will light up).

After the 9 installation steps have been performed:

- Press PROGRAM button on baseboard, then activate the device wired to the tracker expansion board (card reader).
- RF SECURE LED on tracker expansion board will turn from RED to GREEN (this may take up to 20 sec.) when communication has been SUCCESSFULLY established.

No “Green RF SECURE” LED?

Try changing NET ID’s and CH’s on both.
Same NET ID numbers and Same CH number’s MUST be set for both. Press PROGRAM button on RF module after changing NET ID & CH.
Press RESET buttons on each of the tracker’s NET ID’s and CH’s. Try a few different NET ID and CH settings. Still No Green RF SECURE LED?
Relocation of the antenna or relocation of antenna?
Relocation of tracker expansion board?

Tracker Expansion Board

Compatible ONLY with Tracker Expansion Board 2358-010 Revision N or higher.

Optional 900 MHz Wireless Test Range Kit: DoorKing offers a 900 MHz wireless test range kit (sold separately) that is used to easily test the wireless signal between the telephone entry system and any access control device(s) in desired positions. Before they are permanently installed. This test kit is self-contained and is easily positioned anywhere to quickly confirm wireless signal strength. PN 1514-140.

900 MHz Antenna Options

- Built-in Antenna: 900 MHz Antenna #A – PN 2358-064
- Internally Mounted 900 MHz Antenna #A – PN 2358-065
- Externally Mounted 900 MHz Antenna #A – PN 2358-066

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Follow these basic steps to perform desired wireless programming.

**Program Step**

1. Display RF signal strength of tracker board(s) that have been programmed in program step 2.
   - 80 or lower = **GOOD** (74-76 or lower preferred)
   - 81-85 = Unreliable signal strength.
   - 86-99 = **NO signal**

2. Select tracker board(s) RF signal strength to be displayed in program step 1. Settable value is 0-18.
   - 0 = signal from any tracker board address (Default value)
   - 1-18 = tracker board addresses 1-18

3. Set the number of minutes to display RF signal strength. Default value is 5 min. Settable value is 1-30 min.

   **Note:** Avoid keeping the baseboard in “display mode” for a long period of time. While in this mode, it can miss the access requests of a busy network. Built in timer exits “display mode” when timer expires. Press **ENTER** button to exit display mode before timer expires.

4. **Press** the **FUNCTION** button 

5. **Press** default values for programming steps 2 and 3.
   - 7 = Initiator the **RF** remote module (reset 2333 baseboard is required after this command)

   Action taken after the RF baseboard detects no traffic from the tracker board for more than number of minutes defined in program step 7. The below values are accepted for this programming step.

   - ** Rifle**
     - 0 = count the number of lost communication transactions (Default value)
     - 1-5 = Set **RF** module with net ID and channel selected
     - 6 = Restore programming value, sets RF remote module net ID and CH, then reboots RF module
     - 7 = Reboot **RF** module

6. **Press** the **FUNCTION** button

7. Set the number of minutes to display a “no tracker board traffic” condition. Default value is 11 min. Settable value is 1-60 min.

8. **Press** the **FUNCTION** button

9. **Press** the **FUNCTION** button

10. **Press** the **FUNCTION** button

11. **Press** the **FUNCTION** button

12. **Press** the **FUNCTION** button

**Programming Sequence for Wireless Tracker Expansion Board**

Follow these basic steps to perform desired wireless programming. **EACH** tracker expansion board in the system MUST be physically programmed.

**Compatible ONLY with Tracker Expansion Board 2358-010 Revision N or higher.**

1. **Press** a button to activate LED display.
2. **Press** **FUNCTION** button and then use **scroll** buttons to display desired “Program Step” number from list below.
3. **Press** **FUNCTION** button to enter selected program step number. (Light display will blink after **FUNCTION** button has been pressed).
4. **Select** desired data while in program step using **scroll** buttons.
5. **Press** **FUNCTION** button to enter selected data. (Function has now been programmed into board).
6. **Press** **FUNCTION** button AGAIN to **EXIT** programming OR after 10 seconds, board will automatically EXIT programming.

**Note:** Repeat these steps for all other desired wireless programming functions for **THIS** tracker expansion board. Each tracker expansion board will have to be **INDIVIDUALLY** programmed with desired functions.