Model 8056 Receiver Installation and Programming Guide

The model 8056 is a high security RF "rotating code" receiver that will output MicroPLUS™ transmitter codes to a weigand controller in 26, 30 or 31-bit weigand format. This receiver will function with up to 5300 MicroPLUS™ transmitters. The "rotating code" programming in this receiver and the companion MicroPLUS™ transmitters, prevents copied transmitter codes from being used again to access a controlled entry point. This receiver must be protected from direct exposure to the weather.

The transmitter codes that the receiver will respond to can be defined by facility codes and button numbers. For example, one 8056 receiver can be programmed to respond to only button 1, while a second receiver can be programmed to respond only to button 2. In this manner, a two-button transmitter can activate two different receivers without fear of both receivers responding to the same transmitter code and button. Likewise, one receiver can be programmed to respond to a certain facility code, while another can be programmed for a different facility code. Programming options allow you to decide if you want the receiver to match facility codes or not.
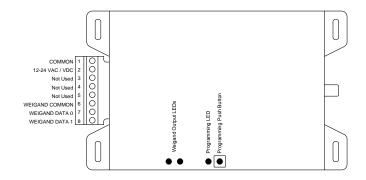
The receiver has seven programming functions: 1) program transmitter codes, 2) program for 26-bit weigand, 3) program for 31-bit weigand, 4) program for 30-bit weigand, 5) program for facility code match, 6) program for no facility code match, 7) erase all memory.

TERMINAL WIRING
1. Input power 12-24 volt AC, 12-24 volt DC NEGATIVE
2. Input power 12-24 volt AC, 12-24 volt DC POSITIVE
3. Not Used
4. Not Used
5. Not Used
6. Weigand Common
7. Weigand Data 0
8. Weigand Data 1

INSTALLATION
Mount the 8056 so that the receiving antenna is in free air and away from metal surroundings for best reception and range. If the receiver is mounted inside a metal enclosure, such as a gate operator or in the Outdoor Receiver Enclosure (P/N 8057-110), a coax antenna kit (P/N 1514-073) will be required for optimal reception and range.

PROGRAMMING

✧ = quick flash. ● = 3-second flash. ⑂ = release button.

Programming Transmitter Codes

1. Press and hold the programming push button until the programming LED flashes one time (about 2 seconds), and then release it. The programming LED will flash once every second indicating that you are in the transmitter programming mode.

   ✧ ⑂

2. While the programming LED is flashing, activate a transmitter(s) so that the receiver can record the transmitter code into its memory. A maximum of 5300 transmitter codes can be stored in the receiver memory. Note: 8056 receivers will store up to 5300 MicroPLUS™ transmitter codes, but you need only to program a single transmitter code into it. The receiver can automatically learn other MicroPLUS™ transmitter codes. Programming the first transmitter code determines which button and which facility code the receiver will respond to if the facility code match programming is turned on. Once the first transmitter code has been programmed into the receiver (this determines the button number and facility code (optional) that the receiver will respond to), other transmitter codes are programmed simply by pressing the appropriate transmitter button two (2) times within 10-seconds. Doing this will cause the receiver to register the transmitter code, and will then output the code to the controller where the decision to grant or deny access will be made. Once the transmitter has been registered, pressing the button one time will cause the receiver to output the transmitter code to the controller. In applications where many transmitters are used (apartment complexes for example), we suggest that the transmitters simply be handed out to the users, who will then register their transmitter when they use it the first time.

3. To exit this programming mode once the first transmitter code has been programmed, wait ten seconds. The programming LED will come on for three seconds and then go out. This indicates that the programming sequence has ended.

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Programming for 26-bit Weigand Output

1. Press and hold the programming push button until the programming LED flashes one time, and then two times (about 4 seconds), then release it. The programming LED will then come on for three seconds, and then go out. This indicates that the receiver is in the 26-bit weigand output mode (standard for DoorKing access equipment).

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Programming for 31-bit Weigand Output

1. Press and hold the programming push button until the programming LED flashes one time, then flashes two times, then flashes three times (about 6 seconds), then release it. The programming LED will then come on for three seconds, and then go out. This indicates that the receiver is in the 31-bit weigand output mode.

   ✧   ✧✧   ✧✧✧   ⑂   ●

Programming for 30-bit Weigand Output

1. Press and hold the programming push button until the programming LED flashes one time, then flashes two times, then flashes three times, then flashes four times (about 8 seconds), then release it. The programming LED will then come on for three seconds, and then go out. This indicates that the receiver is in the 30-bit weigand output mode.

✧   ✧✧   ✧✧✧   ✧✧✧✧   ⑂   ●

Programming for facility code match

1. Press and hold the programming push button until the programming LED flashes one time, then flashes two times, then flashes three times, then flashes four times, then flashes five times, then release it. The programming LED will then come on for three seconds, and then go out. This indicates that the receiver will check the facility code for a match before outputting the transmitter code.

✧   ✧✧   ✧✧✧   ✧✧✧✧   ✧✧✧✧✧   ⑂   ●

Programming for no facility code match

1. Press and hold the programming push button until the programming LED flashes one time, then flashes two times, then flashes three times, then flashes four times, then flashed five times, then flashes six times, then release it. The programming LED will then come on for three seconds, and then go out. In this programming mode the receiver will ignore facility codes and should only be used when transmitters with different facility codes are used.

✧   ✧✧   ✧✧✧   ✧✧✧✧   ✧✧✧✧✧   ✧✧✧✧✧✧   ⑂   ●

Erasing all memory

1. Press and hold the programming push button until the programming LED flashes one time, then flashes two times, then flashes three times, then flashes four times, then flashed five times, then flashes six times, then flashes seven times - three times in a row, then release it. About five-seconds after releasing the button, the LED will emit a long flash indicating the memory is erased.

✧   ✧✧   ✧✧✧   ✧✧✧✧   ✧✧✧✧✧   ✧✧✧✧✧✧

✧✧✧✧✧✧✧   ✧✧✧✧✧✧✧   ✧✧✧   ✧✧✧✧   ⑂   ●