

EntraGuard Bronze Quick Reference

This Quick Reference is designed for the experienced installer as a quick reference while installing to ensure all connections are made properly. The EntraGuard Bronze has been pre-programmed. Refer to the [EntraGuard Bronze Residence Guide](#) (P/N 01911-003) for the programming code and other pre-programmed information.

The Quick Reference is designed as a checklist of sorts where you may check off as each installation procedure is completed. Additional information is given for those who need to be reminded of what is performed during that part of the installation. For detailed information on installing the EntraGuard Bronze Telephone Entry Controller, see the [EntraGuard Bronze Quick Start Guide](#) (P/N 01911-001).

1.0 Specifications

- Size – 9.00 in (22.86 cm) Wide x 6.25 in (15.9 cm) High x 3.50 in (8.89 cm) Deep
- Input Power – 24 VAC, .5amp, 20 VA plug-in transformer
- Relay Outputs (2) – SPDT, Contact Current: 1amp @ 24V
- Humidity – 0% to 95%
- FCC Registration – AL695Y-67614-07-E

NOTE: Before proceeding with the mounting and wiring of the EntraGuard Bronze system, verify your mounting plans will meet all applicable Local, State, and Federal ADA mounting height and accessibility building codes. Also verify you have a safe and secure path for routing all wiring.

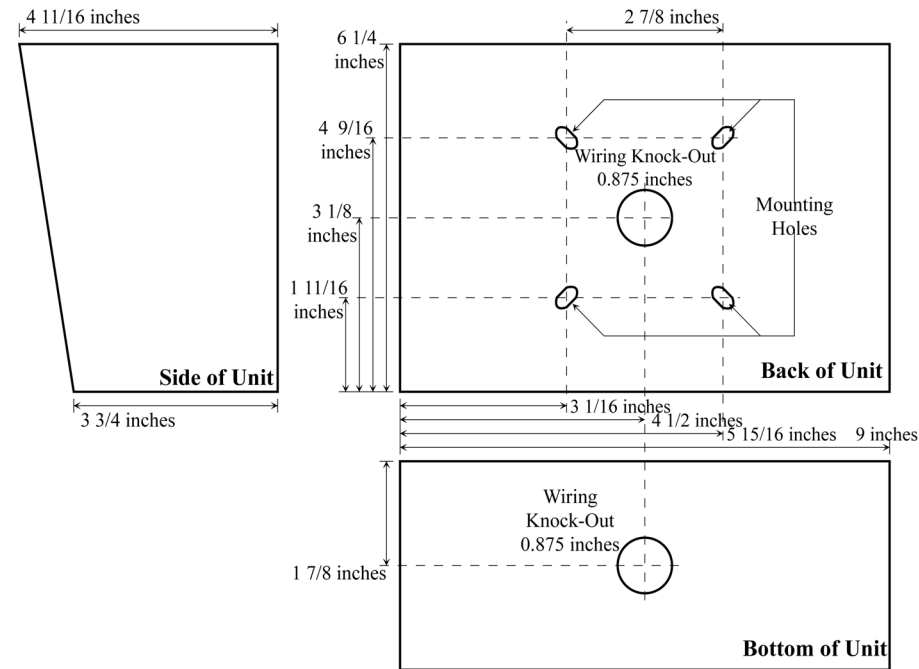


Figure 1: EntraGuard Bronze Mountin Holes and Wiring Knock-Out

Locate the unit as near as possible to the controlled gate. Although the unit is resistant to environmental factors, it should be protected from direct rain and snow.

The unit has four mounting holes for pedestal mounting and two wiring knock-outs, one on the back of the enclosure and one on the bottom (see Figure 1). For wall mounting, choose a rigid wall. For pedestal or fence mounting, provide enough bracing so the unit will not be subjected to excessive shock or vibration when the gate is opened.

Due to the nature of this unit's use, the unit may experience abuse and vandalism. Unit mounting must be done in such a way as to minimize the effects of such treatment.

Typical mounting hardware is #10 x 1 1/2 inch wood screws into wall studs or 3/16 inch fasteners into masonry. Provide additional framing or a backing plate when mounting the unit to paneled or dry-walled areas. The more secure the unit location and mounting, the greater the level of on-going unit integrity.

2.0 Cable Requirements

Telephone

- 2 pair copper phone line with RJ11 connection (one going to the unit and one returning to the house)

NOTE: EntraGuard Gold is not to be used with a Centrex, PBX, or digital phone line. Only use a Plain Old Telephone Service (POTS) analog phone line.

Input Power

- two conductor, stranded, AWG 18 wire (Belden 8461 or a larger gauge)

NOTE: On long power cable runs, the cable resistance causes a drop in voltage at the end of the cable run.

Earth Ground

- Single conductor, AWG 18 wire (or a larger gauge) - Ground wire is green, with or without yellow tracer.

Input and Output Connections

- two conductor, stranded, AWG 22 (or a larger gauge)

NOTE: The Lock Output relays may require a heavier gauge of wire depending upon the current demands of the lock and the length of the lock wiring run.

NOTE: If plenum cable is required, please reference the Belden plenum equivalent to the cables listed above.

3.0 System Wiring

Refer to Figure 2 for wire connection locations for all instruction in Section 3.2.

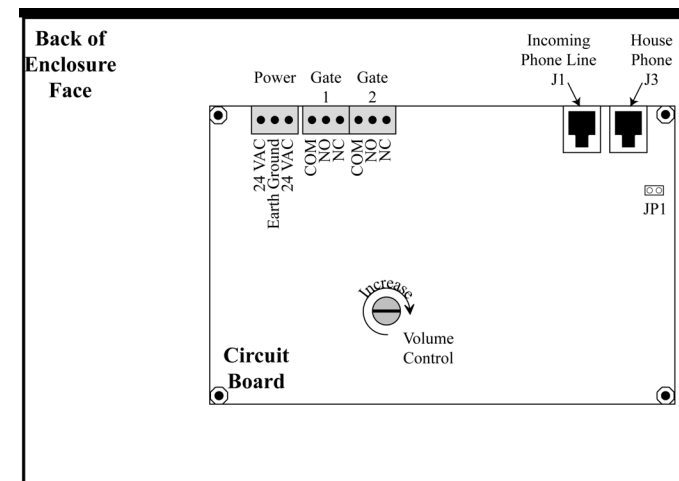


Figure 2: Circuit Board Connections

- ❑ Using a ground wire, connect the unit's enclosure to a known earth ground (such as a ground rod or a conductive cold water pipe), observing all applicable codes.
- ❑ Take a 20 VA plug-in transformer and plug it into an unswitched (always ON), standard 120 VAC wall outlet. For best operating conditions:
 - The outlet should be free from any other loads (preventing power fluctuations from affecting the unit).
 - Locate the outlet/transformer as close as possible to the unit.
 - Ensure the transformer will not be accidentally unplugged from the outlet.

Wire Length in Feet	Minimum Wire Gauge
0 to 200	18
201 to 500	16
501 to 1000	14
1001 to 2000	12

3.1 Relays

There are two relays in the unit. Each relay can control a gate and each relay is activated by a command from either the residence telephone or from the unit itself. Make the wiring connections from the unit to your gate controller as are appropriate for the panel's needs. Typically, a two-conductor, AWG 22 wire is sufficient, however a heavier gauge of wire may be required depending upon the current demands of the gate controller panel and the wire run length. See Figure 3 for relay pinouts.

3.1.1 Isolation Relay for Transient Protection

Some gate controllers generate transients whenever the gate is opened (typically caused by the starting of the gate motor when opening or closing the gate). These transients can be sent down the relay lines to the EntraGuard Bronze unit, affecting unit operation. To guard against transients, a Keri Systems IRP-1 can be installed on the relay line, isolating the unit from the gate controller (see Figure 3).

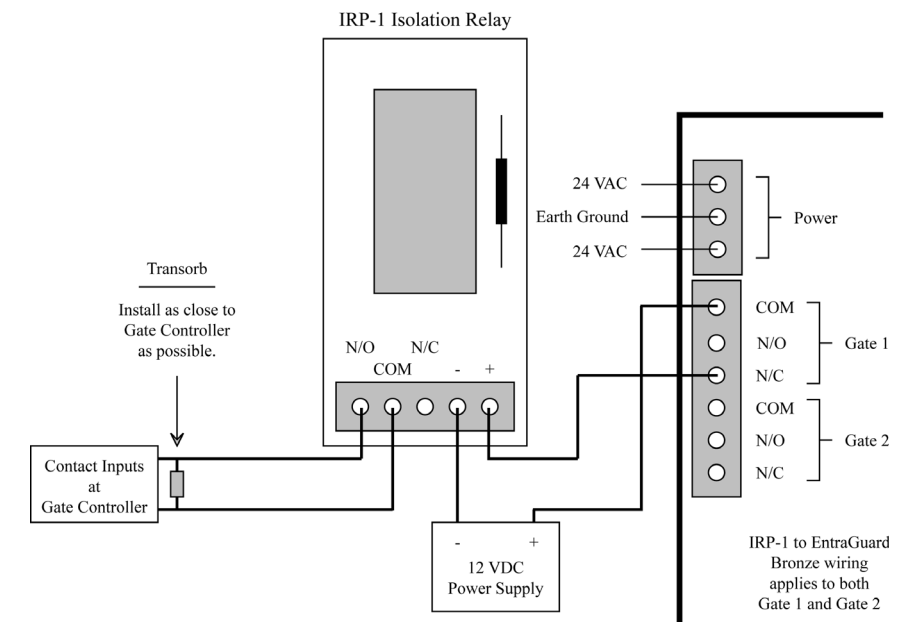


Figure 3: IRP-1 Wiring Diagram

4.0 Resetting the EntraGuard Bronze's Microprocessor

The EntraGuard Bronze comes with basic features pre-programmed. To reset the microprocessor (and clear all pre-programmed), perform the following steps.

1. Turn unit power OFF.
2. Press and hold the * and # keys.
3. Turn unit power ON.
4. Release the * and # keys.

The unit is now reset.

NOTE: Performing a reset completely erases ALL pre-programming and restores the EntraGuard Bronze to the factory defaults.

5.0 Programming

All operating parameters are programmable from either the EntraGuard Bronze's front panel keypad or from any telephone in the residence connected to the same phone line as the EntraGuard Bronze unit. There are 19 commands available. Listed below are some of the most commonly used. For more information on programming the EntraGuard Bronze, refer to the [EntraGuard Bronze Quick Start Guide](#) (P/N 01911-001).

When entering programming commands, the unit responds to correct entries with a short, high-pitched tone to indicate the command was accepted. The unit responds to incorrect/invalid entries with a short, high-pitched tone followed by a low-pitched tone to indicate the command was rejected.

Operation	Instructions
To Enter Programming Mode using Bronze Unit	<ul style="list-style-type: none"> Press * * *
See the EntraGuard Bronze Residence Guide for the pre-programmed code.	<ul style="list-style-type: none"> Press x x x x x x – the six-digit programming code. The unit emits a short high-pitched tone to indicate the unit is in programming mode. If no sound is emitted an invalid programming code has been entered.
Factory Default = 999999	
To Enter Programming Mode using Residence Telephone	<ul style="list-style-type: none"> Press # # #
See the EntraGuard Bronze Residence Guide for the pre-programmed code.	<ul style="list-style-type: none"> Press x x x x x x – the six-digit programming code. The unit emits a short high-pitched tone to indicate the unit is in programming mode. If no sound is emitted an invalid programming code has been entered.
Factory Default = 999999	
All subsequent commands assume the EntraGuard Bronze unit is in Programming Mode.	
Add an Entry Code	<ul style="list-style-type: none"> Press 0 1 Press x x x – the desired entry code. Press #. The unit emits a short high-pitched tone to indicate the code has been accepted. A high-low tone is emitted if an invalid programming code has been entered.
The EntraGuard Bronze comes with four entry codes pre-programmed. See the EntraGuard Bronze Residence Guide for the codes.	
Factory Default = 123	
Delete an Entry Code	<ul style="list-style-type: none"> Press 0 2 Press x x x – the entry code to be deleted. Press #. The unit emits a short high-pitched tone to indicate the code has been deleted. A high-low tone is emitted if an invalid entry code has been entered.
Delete all Entry Codes	<ul style="list-style-type: none"> Press 0 3 Press #. The unit emits a short high-pitched tone to indicate all entry codes have been deleted. A high-low tone is emitted if an invalid entry code has been entered.

Operation	Instructions
Reset the EntraGuard Bronze Unit	<ul style="list-style-type: none"> Press 0 9 Press #. The unit emits a short high-pitched tone to indicate the unit has been reset.
Set the Programming Mode Entry Code	<ul style="list-style-type: none"> Press 1 0 Press x x x x x x – the desired six-digit programming code. Press #. The unit emits a short high-pitched tone to indicate the entry code has been accepted. A high-low tone is emitted if an invalid entry code has been entered.
See the EntraGuard Bronze Residence Guide for the pre-programmed code.	
Factory Default = 999999	
Set the Ring Mode	<ul style="list-style-type: none"> Press 2 0 Press x – the desired ring mode. Type 1: three short rings - long pause Type 2: two medium rings - long pause Press #. The unit emits a short high-pitched tone to indicate the ring mode has been accepted. A high-low tone is emitted if an invalid ring mode has been entered.
The EntraGuard Bronze has been pre-programmed to Type 2.	
Factory Default = Type 1	
Set the Maximum Number of Rings	<ul style="list-style-type: none"> Press 2 1 Press x x – the desired number of rings. Press #. The unit emits a short high-pitched tone to indicate the number of rings has been accepted. A high-low tone is emitted if an invalid number of rings has been entered.
Factory Default = 6	
Set Gate 1 Relay Access Code	<ul style="list-style-type: none"> Press 3 0 Press x – the desired relay access code. Press #. The unit emits a short high-pitched tone to indicate the access code has been accepted. A high-low tone is emitted if an invalid access code has been entered.
Factory Default = 9	
Set Gate 1 Relay Timeout	<ul style="list-style-type: none"> Press 3 1 Press x x – the desired relay timeout value. Press #. The unit emits a short high-pitched tone to indicate the timeout value has been accepted. A high-low tone is emitted if an invalid timeout value has been entered.
Factory Default = 5 seconds	
Set Gate 2 Relay Access Code	<ul style="list-style-type: none"> Press 3 2 Press x – the desired relay access code. Press #. The unit emits a short high-pitched tone to indicate the access code has been accepted. A high-low tone is emitted if an invalid access code has been entered.
Factory Default = 2	

Operation	Instructions
Set Gate 2 Relay Timeout	<ul style="list-style-type: none"> Press 3 3 Press x x – the desired relay timeout value. Press #. The unit emits a short high-pitched tone to indicate the timeout value has been accepted. A high-low tone is emitted if an invalid timeout value has been entered.
Factory Default = 5 seconds	
Set Call Forwarding Telephone Number	<ul style="list-style-type: none"> Press 4 0 Press x x x x x x x x – the desired forwarding telephone number (up to 20 digits). Press #. The unit emits a short high-pitched tone to indicate the telephone number has been accepted. A high-low tone is emitted if an invalid telephone number has been entered.
Enable Call Forwarding	<ul style="list-style-type: none"> Press 4 1 Press #. The unit emits a short high-pitched tone to indicate call forwarding has been enabled.
Disable Call Forwarding	<ul style="list-style-type: none"> Press 4 2 Press #. The unit emits a short high-pitched tone to indicate call forwarding has been disabled.
Set Maximum Connection Time	<ul style="list-style-type: none"> Press 5 0 Press x x – the desired maximum connection time. Press #. The unit emits a short high-pitched tone to indicate the connection time has been accepted. A high-low tone is emitted if an invalid connection time has been entered.
Factory Default = 60 seconds	



1530 Old Oakland Road, Suite 100
 San Jose, CA 95112 USA
 (800) 260-5265 (408) 451-2520 FAX (408) 441-0309
 Web: <http://www.kerisys.com> E-mail: sales@kerisys.com