

# Estate Swing 3G GSM Receiver with Gate Monitoring

## EST-99

**Power:** Use the provided 12VDC power supply or a 12VDC battery

**Red Wire** = +12VDC (standby draw 30 mA, active draw 100 mA)

**Black wire** = -12VDC AND gate status notification GND (see Gate Monitoring)

**Gate Activation:** Momentary dry contact relay (max current 3A)

**Yellow Wire:** N.O. Used in most applications, activation of receiver makes a 3 second momentary connection between N.O and COM. Connect to a terminal on the gate opener where a push button or exit device would be connected.

**White Wire:** COM. Used in all applications. Connect to a terminal on the gate opener where a push button or exit device would be connected.

**Green Wire:** N.C. Not used in most applications, by default always connected to COM, activation of receiver breaks continuity to COM for 3 seconds.

**Gate Monitoring:** Gaining continuity and losing continuity between INA and GND will generate a custom text to master phone. Gaining/losing continuity can be achieved on most gate openers to indicate open or closed status or through an external switch.

**Blue Wire:** INA, connect to N.O. or N.C. lead of a dry contact relay on gate opener or external switch

**Black Wire:** GND, connect to COM lead of a dry contact relay on gate opener or external switch (shared black wire from power section)



### LED Light Indicators:

**Z1:** Incoming Power Indicator. Illuminates if incoming power is present, does not turn off when Power switch is in OFF position.

**Z2:** Diagnostic LED. When unit is powered on, diagnostic light will illuminate for 30 seconds if a SIM card is detected and 60 seconds if a SIM card is not detected. This light also illuminates during programming steps. See steps for indications.

**Z3:** Cellular connection status.

Flashing in a steady pace indicates searching for a network connection.

Solid light with momentary flash indicates connected to a network.

**DEFAULT PASSCODE: 1234**

**Always use ALL CAPS in text commands**

A SIM card with active phone number is required for this product (not provided). The SIM card must be AT&T or T-Mobile. This device communicates on a 3G GSM network.

**Step 1: Set the master phone number.** The master phone number is the number all programming will be conducted from and texts will be received to.

*NOTE: The master number will not open the gate unless also added as a user number.*

Send a text message to the SIM card's phone number: Passcode + DD1 + 10 digit Master Phone Number

Example text: 1234DD17272330490

**Step 2: Change to secure mode.** The receiver by default is set unsecured mode and will activate the gate opener from any phone call from any phone number. Changing to secure mode is recommended and will only permit phone numbers that are entered as user numbers to open the gate.

*NOTE: One precaution with leaving in unsecured mode is wrong number dials and telemarketing calls will randomly open the gate when they occur. (to leave in unsecured mode skip step 2 and step 3)*

Send a text message to the SIM card's phone number: Passcode + CD2

Example text: 1234CD2

**Step 3: Add user numbers.** The person that is in possession of the phone that is to be entered as a user will need to participate in this step by calling the SIM card phone number. They do not have to be present at the location of the receiver.

*NOTE: In the "Other Commands" section of this manual there is an alternate programming method where the programmer also does not have to be present at the location of the receiver.*

A. Press and release the LEARN button.

B. The Z2 Diagnostic LED will illuminate.

C. The user phone must immediately call the SIM card phone number, when the call is received the Z2 Diagnostic LED will turn off and the user phone will be learned in the user number list.

- Allows up to 99 user numbers
- The master phone must also complete this step to open the gate by the master phone calling the SIM number
- If the receiver does not receive a phone call within 30 seconds the receiver will automatically exit the learn mode.

**Step 4 (optional): Add message for gate status texts.** The master phone can receive texts if the Blue and Black wires are connected to a gate opener or external switch that indicate open / closed status.

*NOTE: Depending on what model gate opener or switch device you are using gaining or losing continuity could indicate either gate open or gate closed, program your custom message according to how your device works to indicate open/closed status.*

**To program a message for when continuity is gained (closing the circuit between black wire and blue wire)**

Send a text message to the SIM card's phone number: Passcode + DM01 + Message (23 characters, can have lower case and spaces)

Example text: 1234DM01Gate is closed

**To program a message for when continuity is lost (opening the circuit between black wire and blue wire)**

Send a text message to the SIM card's phone number: Passcode + DM02 + Message (23 characters, can have lower case and spaces)

Example text: 1234DM02Gate is open

## Other Commands

**Change to unsecured mode.** Any call from any number will open gate.

*NOTE: One precaution with changing to unsecured mode is wrong number dials and telemarketing calls will randomly open the gate when they occur.*

Send a text message to the SIM card's phone number: Passcode + CD1

Example text: 1234CD1

**Change passcode.** Must be four digits

Send a text message to the SIM card's phone number: Passcode + DD7 + new passcode

Example text: 1234DD73289

**Remotely adding user phone numbers.** The programming installer can add users without being at the receiver.

Send a text message to the SIM card's phone number: Passcode + SET

Example text: 1234SET

A text will be sent to the master phone from the receiver indicating it is ready: "Wait for call, if no call exit in 2 minutes"

Once this text is received the programming installer should have the individual with the user phone to be added call the number of the SIM card. That user phone number will then be added as a user number.

**Deleting user phone numbers.**

Send a text message to the SIM card's phone number: Passcode + DL + 10 digit phone number to be deleted

Example text: 1234DL7272330490

The Z2 Diagnostic LED will flash after deletion.

**Resetting to factory default**

With the power switch set to OFF press and hold the LEARN button. Continue to hold the LEARN button as the power switch is turned ON. Continue to hold for 15 seconds until the Z2 LED turns off. Your passcode is now 1234.

**Party Mode.** Sending this message will latch the relay to hold a gate open. In order for this to work the N.O. and COM wires must be connected to where an exiting device is wired on the gate opener, not where a receiver or push button would be located.

To turn on party mode:

Send a text message to the SIM card's phone number: Passcode + A1

Example text: 1234A1

To turn off party mode:

Send a text message to the SIM card's phone number: Passcode + A2

Example text: 1234A2