

TGSCIPG01

Cellular Alarm Communicator

Installation and Operating Instructions

Revised August 23, 2017



COMPANY CONFIDENTIAL For use by TELGUARD® customers only.

Distribution to others strictly prohibited.

P/N: 56048701



Important Note

The online registration must be completed before leaving for the job site to install the Telguard® product. Register the unit at www.Telguard.com.

Foreword

The Telguard TGSCIPG01 cellular alarm communicator is designed to be used in residential burglary systems, residential fire systems or combined residential burglary & fire systems as the primary communication path.

Technical Support

Technical support for all Telguard products is available Monday through Saturday, 8am – 8pm EST.

Toll Free: 800-229-2326, option 9

About this Manual

This manual assumes that you have basic security system installation skills such as measuring voltages, stripping wire, properly connecting wires together, connecting wires to terminals, and checking phone lines. It also assumes that you are familiar with the proper installation and programming tasks related to various alarm panels.

The material and instructions covered in this manual have been carefully checked for accuracy and are presumed to be reliable. However, Telguard assumes no responsibility for inaccuracies and reserves the right to modify and revise this manual without notice.

It is our goal at Telguard to always supply accurate and reliable documentation. If a discrepancy is found in this documentation, please mail or fax a photocopy of the corrected material to:

Telguard Technical Support
3225 Cumberland Blvd
Suite 300
Atlanta, GA USA 30339
Fax: 678-945-1651

In Canada, Telguard products and services are sold under the Telular brand.

Repair and Warranty

If trouble is experienced with the *Telguard Alarm Communicator* please contact Telguard Technical Support for troubleshooting, repair and (or) warranty information. The dealer or end user should not attempt any repair to the *Telguard Alarm Communicator*. Repair of this equipment should only be referred to qualified technical personnel.

Telguard will repair or replace (our option) inoperative units for up to two years from date of manufacture. This excludes damage due to lightning or installer error. Unauthorized modifications void this warranty. Telguard is not responsible for incidental or consequential damages. Liability is limited to the price of the unit. This is the exclusive warranty and no other warranties will be honored, whether expressed or implied.

If a Telguard unit needs to be returned for repair, please return the product to the distributor that the unit was originally purchased from. If you are unsure of the distributor, please contact the Telguard RMA Department at 800-229-2326 option 1 to determine which distributor sold the unit. Distributor will contact Telguard to determine if the product is within the warranty period. Units without a serial number, damaged by lightning, damaged by vandalism or show signs of tampering will not be covered by warranty. Units returned for repair that are out of the warranty period or do not meet warranty criteria will be subject to a minimum repair charge.

An RMA must be assigned before returning product. You may request a Telguard RMA via phone at 800-229-2326 option 1, or by email at returns@telguard.com. The RMA number assigned must be clearly visible on outside of the shipping box or product will not be accepted for return.

Future Testing and Limitations on Use

The TGSCIPG01 is part of an advanced design alarm-communication system. It does not offer guaranteed protection against burglary and fire. Any alarm communication system is subject to compromise or failure.

The TGSCIPG01 will not work without power. Electrically powered devices will not work if the power supply is off for any reason, however briefly.

The cellular radio network, needed to transmit alarm signals from protected premises to a central monitoring station, may be inoperable or temporarily out of service. Cellular radio networks are also subject to compromise by sophisticated methods of attack.

This equipment, like any other electrical device, is subject to component failure. Although this equipment is designed to be long lasting, the electrical components could fail at any time.

Due to these limitations, we recommend that if the automatic self-test feature is not enabled, other arrangements be made with the user to test the system at least once every three months. Moreover, arrangements should also be made for on-site inspection/test by a licensed alarm installer at least once each year.

Terms and Conditions for Use of Telguard Product

These Terms and Conditions are a legal contract between you and Telguard for the title to and use of the Product. BY RETAINING AND USING THE PRODUCT YOU AGREE TO THE TERMS AND CONDITIONS INCLUDING WARRANTY DISCLAIMERS, LIMITATIONS OF LIABILITY AND INDEMNIFICATION PROVISIONS BELOW. **IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS, DO NOT USE THE PRODUCT AND IMMEDIATELY RETURN THE UNUSED PRODUCT FOR A COMPLETE REFUND.** You agree to accept sole responsibility for any misuse of the Product by you; and, in addition, any negligent or illegal act or omission of your or your agents, contractors, servants, employees, or other users of the Product so long as the Product was obtained from you, in the use and operation of the Product.

INDEMNIFICATION OF TELGUARD (“TELGUARD”)

YOU SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS TELGUARD FOR ANY OF THE COST, INCLUDING REASONABLE ATTORNEYS' FEES, AND FROM CLAIMS ARISING OUT OF YOU, YOUR CLIENTS' OR OTHER THIRD PARTIES' USE OR OPERATION OF THE PRODUCT: (i) FOR MISUSE OR IN A MANNER NOT CONTEMPLATED BY YOU AND TELGUARD OR INCONSISTENT WITH THE PROVISIONS OF THIS MANUAL; (ii) IN AN ILLEGAL MANNER OR AGAINST PUBLIC POLICY; (iii) IN A MANNER SPECIFICALLY UNAUTHORIZED IN THIS MANUAL; (iv) IN A MANNER HARMFUL OR DANGEROUS TO THIRD PARTIES; (v) FROM CLAIMS BY ANYONE RESPECTING PROBLEMS, ERRORS OR MISTAKES OF THE PRODUCT; OR (vi) COMBINATION OF THE PRODUCT WITH MATERIAL, MODIFICATION OF THE PRODUCT OR USE OF THE PRODUCT IN AN ENVIRONMENT NOT PROVIDED, OR PERMITTED, BY TELGUARD IN WRITING. THE PARTIES SHALL GIVE EACH OTHER PROMPT NOTICE OF ANY SUCH COST OR CLAIMS AND COOPERATE, EACH WITH THE OTHER, TO EFFECTUATE THIS INDEMNIFICATION, DEFENSE AND HOLD HARMLESS.

WARRANTY AND LIMITATIONS

TELGUARD WILL REPAIR OR REPLACE (OUR OPTION) INOPERATIVE UNITS FOR UP TO TWO YEARS FROM DATE OF MANUFACTURE. EXCLUDES DAMAGE DUE TO LIGHTNING OR INSTALLER ERROR AS WELL AS UNITS THAT INCORPORATE MATERIAL, OR USED IN A MANNER OR ENVIRONMENT, NOT SPECIFICALLY AUTHORIZED IN THIS MANUAL. UNAUTHORIZED MODIFICATIONS VOID THIS WARRANTY. NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. LIABILITY LIMITED TO PRICE OF UNIT. THIS IS THE EXCLUSIVE WARRANTY, IN LIEU OF ALL OTHER WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY, TITLE, DELIVERY, INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE AND NO OTHER WARRANTIES WILL BE HONORED, WHETHER EXPRESSED OR IMPLIED.

Table of Contents

Important Note	1
Foreword	1
Table of Contents	4
General Description and Operation	6
Visual Tour	7
<i>LED Indicators</i>	<i>8</i>
<i>Buttons</i>	<i>8</i>
Features	9
<i>Operating Mode</i>	<i>9</i>
<i>SafetyNet</i>	<i>9</i>
<i>Panel-Supplied Power</i>	<i>9</i>
<i>Alarm Format Support</i>	<i>9</i>
<i>UL/ULC Listings</i>	<i>9</i>
<i>Complete Supervision of Communication Path</i>	<i>9</i>
<i>Telguard Automatic Self-test Report</i>	<i>9</i>
<i>Telguard Remote Query Capability</i>	<i>10</i>
<i>Diagnostic and Status LEDs</i>	<i>10</i>
<i>Single Line Interface Cable (S.L.I.C.)</i>	<i>10</i>
<i>HomeControl Flex</i>	<i>10</i>
Getting Ready	11
<i>Dealer Account Establishment</i>	<i>11</i>
<i>Subscriber Account Registration</i>	<i>11</i>
<i>Pre-Installation Checklist</i>	<i>11</i>
Installation	12
<i>Summary</i>	<i>12</i>
<i>Step 1: Register the TGSCIPG01 for Service</i>	<i>12</i>
<i>Step 2: Locate Unit and Measure Signal Strength (RSSI)</i>	<i>12</i>
<i>Step 3: Activate and Transmit Alarms</i>	<i>13</i>
<i>Step 4: Complete the Telguard Installation</i>	<i>14</i>
Wi-Fi	15
<i>Summary</i>	<i>15</i>
<i>Enable & Connect To Wi-Fi Configuration Access Point</i>	<i>15</i>
<i>WPS Push-Button</i>	<i>16</i>
<i>WPA & WPA2</i>	<i>17</i>

Appendix 1 – Connection Guide	19
Appendix 2 – Troubleshooting Guide	20
Appendix 3 – Detailed Specifications	21
<i>Dialer to Interface Electronics</i>	<i>21</i>
<i>Power Consumption</i>	<i>21</i>
<i>Radio</i>	<i>21</i>

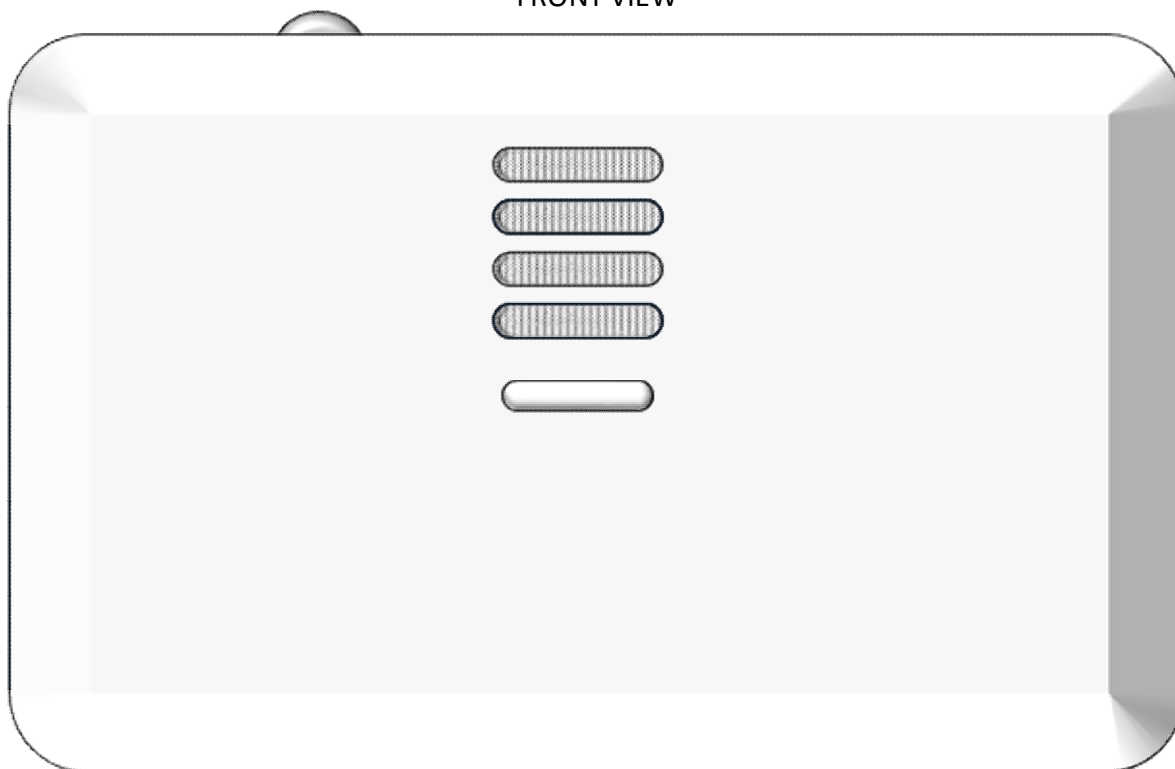
General Description and Operation

The Telguard® TGSCIPG01 is a cellular alarm communicator for household alarm panels. When transmitting an alarm signal, the TGSCIPG01A obtains its data from the alarm panel by way of a telephone interface. The TGSCIPG01 will obtain all alarm signal information including monitoring station phone number, account number and all zones for every alarm transmission. The Telguard handshakes with the alarm panel and causes it to transmit the alarm data. Telguard encrypts the alarm data and transmits it to the Telguard Communication Center (TCC) over the cellular network. The TCC performs a function similar to a central station receiver and issues the transmission acknowledgement when the last message in the transmission is received. After decrypting and reformatting, the alarm signal is routed over the telco line (Public Switched Telephone Network - PSTN) or via the Internet (IP) to the appropriate alarm company central station for action.

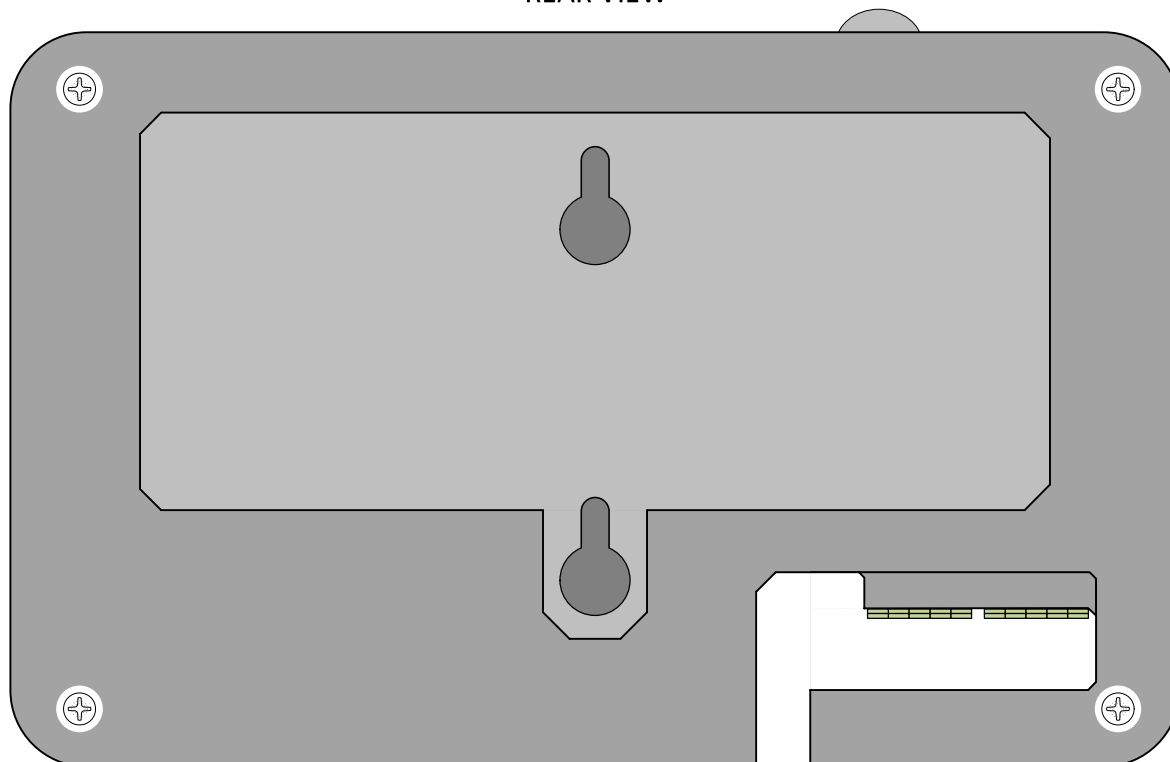
In a typical alarm installation, the TGSCIPG01 is installed in the same area as the host alarm system and is connected directly to the host alarm panel via the Telguard's RJ-45 jack. One programmable System Trouble Condition (STC) relay provides a supervisory trip output for connection to the alarm panel's trip zone input terminals in order to provide a Telguard trouble signal to the alarm panel. Additionally, automatic self-test and remote query signals are transmitted exclusively over the cellular network to the TCC. All cellular monitoring and supervisory functions are built in. No extra modules are required.

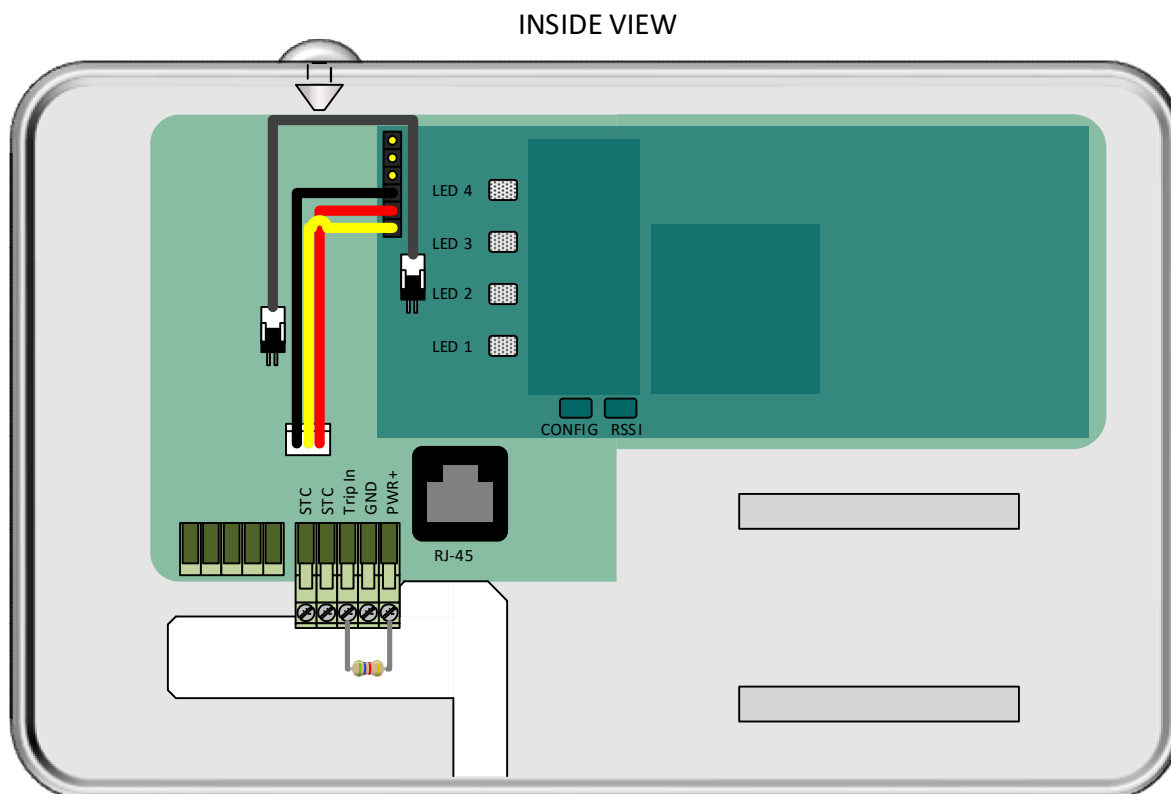
The UL® Listed equipment at the TCC plays a key role in the operation of the TGSCIPG01. All Telguard units are required to use the TCC because of the alarm panel alarm signal format encoding and decoding requirements used in packet-data transmissions. The TCC also manages the real-time databases for cellular service and a complete history of every Telguard unit's operating conditions. These conditions include programming setup information, alarm transmission information, supervisory trouble information, status information, and automatic self-test information.

FRONT VIEW



REAR VIEW





LED Indicators

Indicator	Description
LED 1	Telguard Registration & Activation
LED 2	Cellular Status
LED 3	Wi-Fi Status
LED 4	For Future Use

Buttons

Button	Functions
CONFIG (Accessible when cover is off)	<ul style="list-style-type: none"> Press & release to trigger WPS Push-Button association. Press & hold for 5 seconds then release to enable the Wi-Fi Configuration AP. Press & hold for 15 seconds then release to restore Factory Defaults.
RSSI (Accessible when cover is on)	<ul style="list-style-type: none"> Press & release to switch between normal mode and RSSI mode. Press & hold for 5 seconds then release to send a test message to the TCC.

Features

This section summarizes key features of the Telguard TGSCIPG01.

Operating Mode

The Telguard TGSCIPG01 is a cellular alarm communicator that is installed at the protected premises to provide primary alarm transmission integrity for household burglary and fire systems.

SafetyNet

SafetyNet will back up the low-cost Wi-Fi path with pay-on-demand cellular. Visit www.Telguard.com/SafetyNet for more details on utilizing this feature.

Panel-Supplied Power

The Telguard TGSCIPG01 has a low power profile, and as such can usually be powered from the panel to which it is connected. Simply connect the Auxiliary power output from any voltage compatible (12V) panel to the DC input on the TGSCIPG01. Using the panel to provide power for the TGSCIPG01 allows for a simpler installation, and eliminates the need for additional A/C outlets.

UL Note: The device needs to be powered by a UL Listed control panel that can supply sufficient standby power.

Alarm Format Support

The following formats are supported with the Telguard TGSCIPG01:

- Contact ID
- SIA2 (SIA-DC-03 Level 2 at 300 baud)

UL/ULC Listings

Model TGSCIPG01 meets the requirements for all Household Burglary, Household Fire, and Combined Household Burglary/Fire installations, as listed below:

- UL Household Burglary (UL 1023)
- UL Household Fire (UL 985)
- ULC Household Burglary (C0123)
- ULC Residential Fire (S545)

Complete Supervision of Communication Path

The Telguard TGSCIPG01 continuously monitors all communication paths.

No Service Condition (NSC)

The Telguard declares a no service condition (NSC) when the Telguard device is unable to register with the cellular network.

LED 2 will turn off immediately after losing cellular connection. NSC restoral occurs immediately after an acceptable cellular connection has been acquired.

Radio Failure Condition (RFC)

Radio communications failure condition (RFC) is declared when Telguard is unable to transmit over any of the configured paths even with acceptable signal strength. RFC is cleared as soon as communication with the Telguard Communications Center is restored.

Telguard Automatic Self-test Report

The Telguard automatic self-test signal may be programmed to a monthly schedule as prescribed by contract. The central station receives the automatic self-test report in the same format that the alarm panel normally uses for communication over the telco line. The self-test code and testing frequency are set during registration, and can accommodate any code the Central Station expects. The TCC captures all current and historical data pertaining to the operation of the Telguard when it processes the automatic self-test signal. This data contains current operational status (C.O.S.) of the Telguard such as "All OK", or any combination of the system

trouble conditions, as well as the current signal strength. In addition, the data also contains historical data for supervisory events that occurred since the last self-test signal was transmitted. This data includes the number of occurrences of communications failure conditions and no cellular service conditions. This additional information is available by contacting Telguard Technical Support or by visiting www.Telguard.com (dealer log-in credentials required).

Telguard Remote Query Capability

Although Telguard has the capability for a monthly automatic self-test, a separate feature is provided for determining the current operational status of every Telguard unit. This feature is called Remote Query and is used to provide real-time operational status for Telguard on-demand. Authorized personnel can initiate the Remote Query at any time by calling Customer Service or by visiting www.Telguard.com. The Remote Query causes Telguard to upload current operational status data and historical data, just as the automatic self-test described above, except that the query signal is controlled by the one who initiates it. The query signal is held in the Telguard database at the TCC for review and is not forwarded on to the central station.

Diagnostic and Status LEDs

Four LEDs provide a useful aid during installation and give installers an immediate visual indication of system status. The LEDs serve as indicators for activation, system trouble conditions, and as communication indicators. They also can be used to provide a signal strength indication, similar to the signal strength bars on a cellular phone. See the installation section for details.

Single Line Interface Cable (S.L.I.C.)

To further simplify installation, the TGSCIPG01 Express can be connected to the panel power using pins 2 and 7 of the RJ-45 connector for Ground and Power respectively. This allows the installer to connect both the communication path as well as the power to the alarm panel using a single cable.

HomeControl Flex

The feature comes as an added service that provides the flexibility of remote arming/disarming of the panel and end-user notification of events.

The HomeControl Flex service can work in conjunction with any single-partition security system provided the alarm panel and Telguard are wired properly and that the panel can be programmed with the following:

- Alarm reporting format must be programmed to Contact ID.
- A programmable output that is configured to follow the armed status.
- An available zone must be programmed as a Momentary Keyswitch, so that a temporary short will cause the panel to switch states (from Armed to Disarmed and vice-versa).
- Opening and Closing reports must be enabled to report at all times.

For more detailed installation and programming instructions refer to the HomeControl Flex Installation Guide found on <http://www.telguard.com/flex> under Product Resources.

NOTE: HomeControl Flex functions are not evaluated by UL.

Getting Ready

The Telguard can only be activated when all the necessary accounting information has been entered into the customer database located at the TCC. The database includes information about the customer account, unit location, and system test plan information.

Dealer Account Establishment

Prior to registration of any Telguard unit, a Dealer Account must be established. Once the Dealer Account has been submitted and approved by Telguard, a subscriber account online registration may be submitted. Establish your Dealer Account by completing the Online Telguard Cellular Service Dealer Account Application at www.Telguard.com. Once the application has been completed you will receive an acknowledgment within one business day. This is a one-time event; the acknowledgment from the Telguard Customer Service will include a Dealer Account Number that will be used for all Telguard registrations.

Subscriber Account Registration

A completed subscriber account online registration is required by Telguard to register the TGSCIPG01 prior to leaving for the job site. Service registration of the Telguard may be accomplished via the web portal: www.Telguard.com

The TGSCIPG01 will be ready for activation after device registration is complete. Activation of the TGSCIPG01 occurs automatically following received transmission of the first alarm signal by the TCC.

Pre-Installation Checklist

Be sure you have all the proper parts before you go to the job site. The following items are shipped with each TGSCIPG01:

- TGSCIPG01 board in plastic enclosure
- Quick Install Guide
- Mounting Hardware
- 5.6K Ω resistor (used for HomeControl Flex installation)

You must also have certain installation test tools:

- A screwdriver will be required to secure wires to the terminal blocks and permanently mount the unit.

Installation

Summary

There are four steps to install a Telguard TGSCIPG01 unit properly. IF YOU DO NOT PROCEED IN THE ORDER AND MANNER PRESCRIBED, YOU MAY NOT COMPLETE THE INSTALLATION IN THE TIME ALLOCATED. These steps are summarized below and then explained further in the remainder of this manual.

1. Register for Telguard service
2. Locate unit and measure signal strength
3. Activate and transmit alarm panel alarms
4. Complete installation

This six-step installation approach provides the alarm installer with the easiest and fastest method of properly installing the TGSCIPG01. Please follow the instructions carefully and if you should need assistance or have any questions, call Telguard Technical Support at 1-800-229-2326 option 9.

Step 1: Register the TGSCIPG01 for Service

The registration form must be completed before leaving for the job site to install the Telguard product. The registration form may be completed online by visiting www.Telguard.com

Step 2: Locate Unit and Measure Signal Strength (RSSI)

Locate Unit

Pick a spot next to the alarm panel where you think the Telguard will be mounted and place the unit down temporarily in that spot. Do not mount it permanently now, since it may need to be moved to receive a better cellular radio signal or a remote high-gain antenna may be necessary.

Note that for a UL compliant installation, the Telguard TGSCIPG01 must be mounted in the same room as, and not more than 20ft from the alarm panel.

Connect Power Connection

Before connecting the power cables to the alarm panel, make sure that the panel's power source and battery are disconnected.

To connect power to the TGSCIPG01 using terminal block:

1. Connect the black and red leads to the GND and PWR terminals of the alarm panel. The specific terminals used on the panel will depend on the panel make and model.
2. Connect the black and red leads to the GND and PWR terminals on the TGSCIPG01
3. Reconnect the alarm panel's power supply,

To connect power to the TGSCIPG01 using the POTS connection:

1. Using a standard RJ-31X to spaded lead cable, connect the orange and blue leads to the GND and PWR terminals of the alarm panel respectively.
2. Connect the remaining leads to the Telco terminals in the alarm panel, per the panel's instruction.
3. Connect the other end of the cable to the RJ-45 jack on the TGSCIPG01.
4. Reconnect the alarm panel's power supply,

<u>Recommended Wire Size</u>	<u>Length Not to Exceed</u>
18 ga	20 ft
16 ga	40 ft
14 ga	60 ft

Temporarily Place Unit

The Telguard TGSCIPG01 is equipped with an internal antenna. The performance of the Telguard antenna may be affected by the wall material and materials contained within the wall chosen for mounting. These effects may not be clearly identified by RSSI monitoring alone. The wall materials may have a more pronounced effect on the antenna's transmit band performance.

When selecting a mounting location, do not mount this unit in an area where the general public could reasonably be within 20cm (8 inches).

Note 1: Optimum RF performance can usually be found at the highest point within a building with the fewest number of walls between the Telguard and the outside of the premises.

Note 2: To avoid interference with other electronic devices operating in the area, avoid mounting the Telguard TGSCIPG01 near other electronic devices.

Note 3: The Telguard TGSCIPG01 is designed for indoor installations ONLY.

These considerations should be coupled with the best RSSI indication obtainable. Care should be taken to ensure that a large metal object such as a refrigerator or a metal cabinet is not located on the opposite side of the wall.

Measure Received Signal Strength (RSSI)

Measure the received signal strength by pressing the RSSI button. This switches the LEDs to signal strength mode. Confirm the unit meets the minimum 2 ½ RSSI value recommended by Telguard. See the following table for LED RSSI patterns.

RSSI Value	Illuminated LEDs	RF (dBm)
NO SVC	LED 4 = slow flashing Red LED 3-1 = off	n/a
1	LED 4 = solid Amber LED 3-1 = off	≤ -111
1½	LED 4 = solid Amber LED 3 = slow flashing Amber LED 2-1 = off	≥ -110
2	LED 4-3 = solid Amber LED 2-1 = off	≥ -100
2½	LED 4-3 = solid Green LED 2 = slow flashing Green LED 2 = off	≥ -90 (Minimum signal strength required)
3	LED 4-2 = solid Green LED 1 = off	≥ -80
3½	LED 4-2 = solid Green LED 1 = slow flashing Green	≥ -70
4	LED 4-1 = solid Green	≥ -60

LED Function Table – View RSSI Mode (RSSI button)

Note: If you cannot obtain a signal strength reading of 2½ or greater, the Telguard may need to be relocated.

Step 3: Activate and Transmit Alarms

Plug the modular jack of the alarm panel to the RJ45 jack on the Telguard, and confirm that the TGSCIPG01 enables the host alarm panel to transmit alarm signals over the cellular radio network.

The TGSCIPG01 will confirm activation with the TCC if the registration form was submitted prior to installation. During the processing of the first alarm signal over the cellular network, the TGSCIPG01 will transmit all of its parameters along with the information (central station number and account code) from the alarm panel. Once this information is received, the TCC will transmit a message back to the TGSCIPG01 indicating the unit is activated. Once this message is received the LED's on the unit will begin operating in normal mode; LED 1 will be solid green.

Note: To activate the unit, you must trigger an alarm from the panel. The first alarm is to confirm registration and to activate the TGSCIPG01. The first alarm will NOT be transmitted to the central station.

Special LED Indications during Activation

If the TGSCIPG01 fails the activation process, it will be displayed on the LEDs.

- If LED 1 is solid red, the activation message was NOT received at the TCC. Transmit the activation alarm message again by triggering an alarm from the panel. If the TGSCIPG01 fails to register a second time, check the signal strength. If the signal strength is OK call Technical Support.

Important: In order to clear this fault, the RSSI button must be pressed twice before the next attempt. After the issue has been resolved and the unit cleared, RETRY ACTIVATION.

System Status LEDs	Activation Indications
LED 1 ON - SOLID RED	Activation Error – Call Telguard Technical Support
LED 1 ON – SOLID AMBER	Unit is not registered and disabled
LED 1 ON - SOLID GREEN	Activation Successful

System Status LEDs Table

Note: If the TGSCIPG01 LED 1 continues to indicate solid red or amber, please contact Telguard Technical Support.

Verify Alarm Signal Transmissions over Cellular

Trip several alarms on the alarm panel and verify that the central station received them by calling the central station operator. After the panel has finished communicating with the TGSCIPG01, LED 2 will come on solid amber for 1 second while waiting for an acknowledgement from the TCC.

If you are having problems receiving reliable alarm signal transmissions, additional adjustments may be necessary.

- Recheck signal strength. You need a minimum **RSSI = 2½** for adequate signal strength.
- Call Telguard Technical Support, 1-800-229-2326 option 9.

Step 4: Complete the Telguard Installation

The last step is to permanently mount the Telguard.

1. Permanently mount the Telguard enclosure.
2. The “keyhole” mounting holes on the back of the TGSCIPG01 are 2.5” apart, center-to-center.
3. Slide the enclosure onto these screws.

Summary

The Telguard TGSCIPG01 comes equipped with a Wi-Fi module (not evaluated by UL) supporting 802.11bgn networks and association by WPA, WPA2 and WPS Push-Button. The TGSCIPG01's Wi-Fi can be configured locally or from www.Telguard.com.

You will need to know the following information from your customer regarding their Wi-Fi network.

- Wi-Fi network name
- Wi-Fi network association capability
 - For WPA/WPA2 you will need to know the passphrase
 - For WPS Push-Button you will need to know the location of the customer's Wi-Fi Access Point (AP).

Telguard recommends using WPS Push-button for configuring Wi-Fi. WPS is the fastest way to configure Wi-Fi and does not require the resident to share their passphrase. Here is a quick summary of the steps to configure using WPS Push-Button:

1. Press the WPS button on the resident's Wi-Fi access point.
2. Press and release the CONFIG button. Confirm LED 3 begins to slowly flash green.

Here is a quick summary of the steps to locally configure Wi-Fi on the TGSCIPG01 using WPA/WPA2:

1. Enable the Wi-Fi Configuration Access Point.
2. Connect to the TGSCIPG01's Access Point using the serial number for the passphrase.
3. Navigate to the <http://tgsetup.com> site and follow the wizard for associating to the customer's Wi-Fi Access Point.

Enable & Connect To Wi-Fi Configuration Access Point

To enable the Wi-Fi Configuration Access Point press and hold the CONFIG button for 5 seconds, then release. Confirm LED 3 begins to slowly flash red.

Using a PC or Mac associate with the Wi-Fi Configuration Access Point. See label in the Visual Tour section for Access Point name and passphrase. Once associated, bring up the configuration page by pointing your web browser to <http://tgsetup.com>.

TIP: If the Wi-Fi Configuration Access Point is not accessed within 5 minutes the TGSCIPG01 will automatically disable the Access Point and LED 3 will return to its previous indication.

TIP 2: The TGSCIPG01's MAC address is listed on the product packaging and the label located on the TGSCIPG01 board (see Visual Tour for its location).

WPS Push-Button

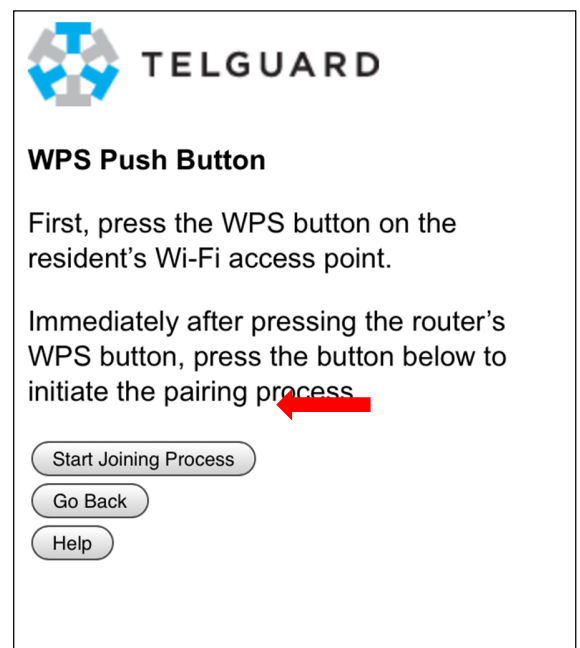
Step 1: Select Configuration Method

Click on the 'WPS Push Button' button.



Step 2: Press Customer's WPS Button

Locate the customer's Wi-Fi Access Point and press its WPS button. Now click on the 'Start Joining Process' button to continue. At this point The TGSCIPG01 will attempt to associate with the customer's Wi-Fi Access Point.




Step 3: Success

You will be presented with a confirmation when you successfully associate with the customer's Wi-Fi network. At this point the TGSCIPG01 will disable the Wi-Fi Configuration Access Point and continue normal operation using the customer's Wi-Fi network.

Step 1: Select Configuration Method

Click on the 'Scan and select the network' button.

 **TELGUARD**


Telguard TG-SCI Wi-Fi Setup

Begin the setup process by selecting a configuration method:

WPS Push Button

This is the fastest way to set up the Wi-Fi connection and it doesn't require the resident to share their Wi-Fi passphrase.


Scan and select the network



Choose this if you know the Wi-Fi network's name and the resident has access to the passphrase.

Step 2: Associate With Customer's Wi-Fi Network


At this point the TGSCIPG01 will scan for available Wi-Fi Access Points. It is normal for your Wi-Fi connection with the TGSCIPG01 Configuration Access Point to drop for up to 15 seconds while the scan occurs. Once your connection returns click on 'Choose Resident's Wi-Fi Network'.

 **TELGUARD**

Scanning for Access Points

You will lose the Wi-Fi connection to the TG-SCI during the scanning process.

If your device hasn't reconnected automatically to the TG-SCI after 15 seconds, access your device's Wi-Fi settings and do so manually.

When the connection is reestablished proceed to the next step. 

Choose Resident's Wi-Fi Network

Go Back

You will now need to select the customer's Wi-Fi AP, enter the appropriate passphrase into the password textbox and click on the 'Start Joining Process' button.


TIP: If you do not see the customer's Wi-Fi network name in the list click on 'Rescan' to refresh the list of Wi-Fi network names.

TIP 2: If your customer's Wi-Fi network is set to not broadcast its network name use the manual network name entry text box noted to the right above the rescan button.

TIP 3: Click on 'Help' at the bottom of the page for further details.

Step 3: Success



You will be presented with a confirmation when you successfully associate with the customer's Wi-Fi network. At this point the TGSCIPG01 will disable the Wi-Fi Configuration Access Point and continue normal operation using the customer's Wi-Fi network.

 **TELGUARD**

Network Selection


Choose the resident's Wi-Fi network. You will need to ask the resident for their network name and passphrase.


Choose Wi-Fi Network's Name:

Network Name	Signal
<input type="radio"/> telularwifi	Very Good 
<input type="radio"/> telularguest	Good
<input type="radio"/> wrslconference	Good
<input type="radio"/> Netgear MBoaz	Good
<input type="radio"/> RTI NET	Good
<input type="radio"/> Guest Access	Good
<input type="radio"/> <input type="text"/>	

Rescan

Enter the Wi-Fi network's passphrase.



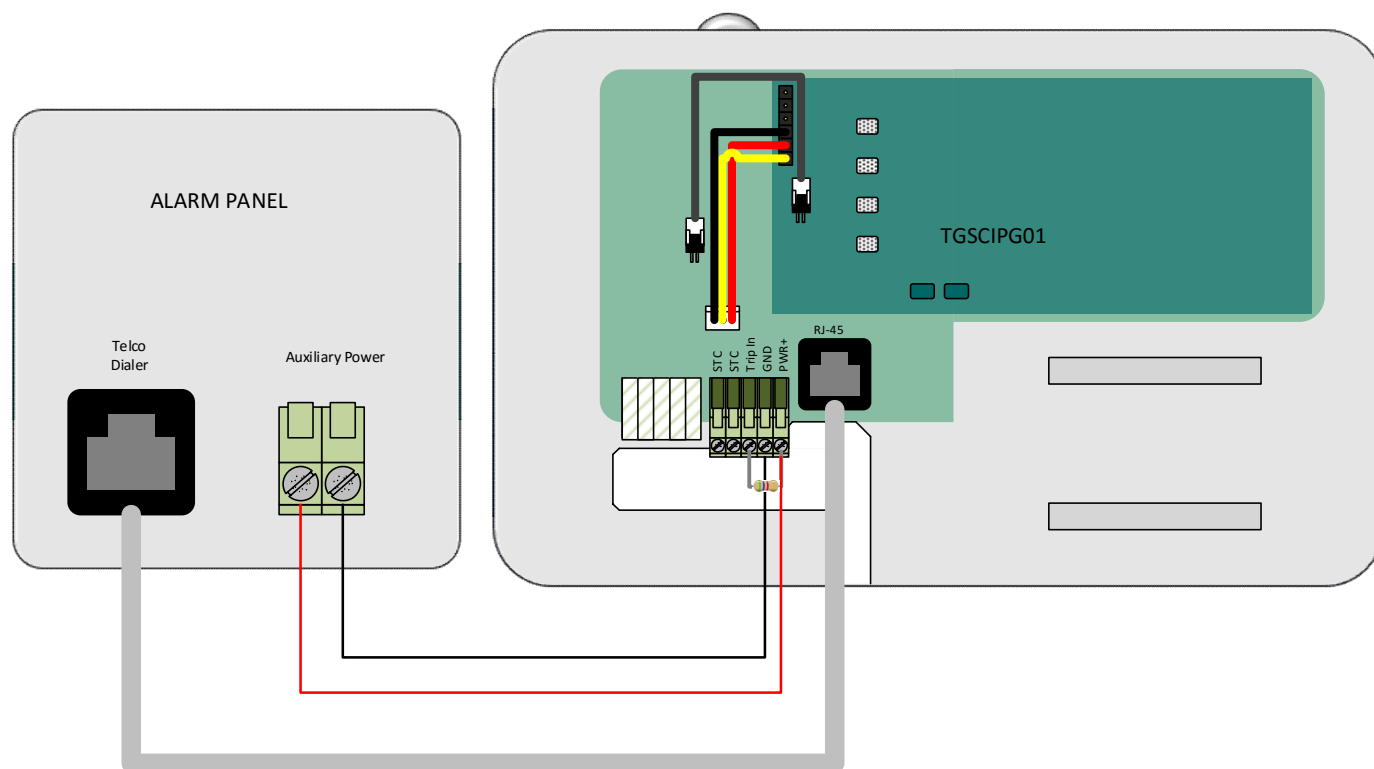
Start Joining Process 

Go Back

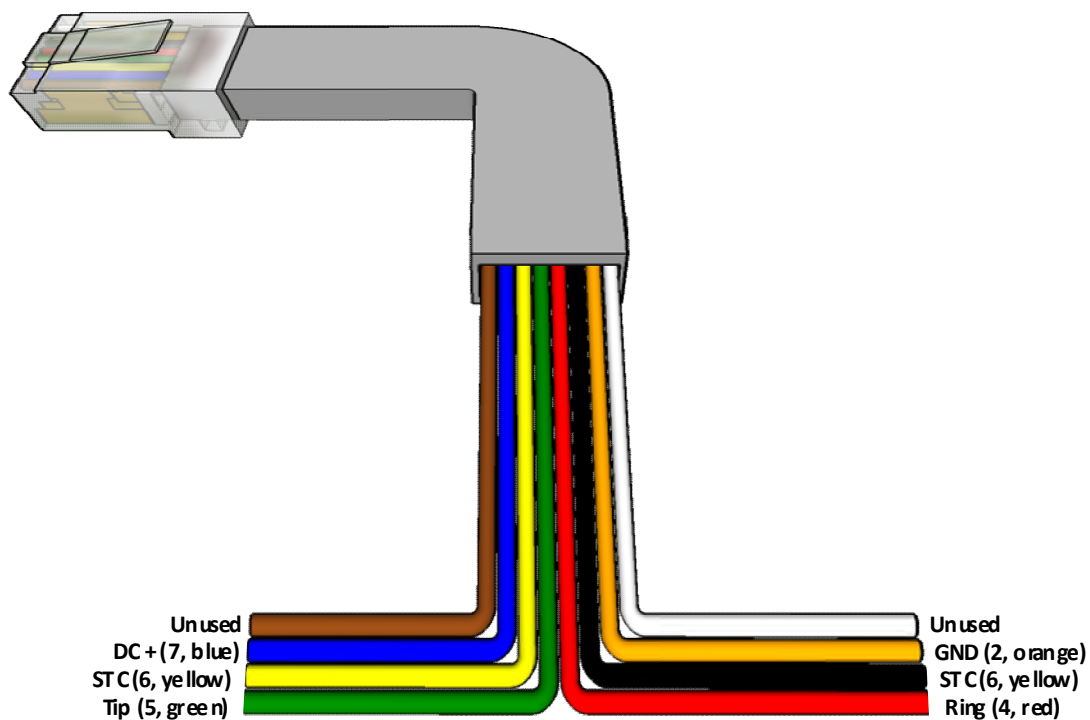
Help

Appendix 1 – Connection Guide

Terminal Block Diagram



Single Line Interface Cable (S.L.I.C.)



Appendix 2 – Troubleshooting Guide

This section provides a summary of all LED indications and their function.

LED Indicator Guide – Normal Operating Mode

LED Symbol	Color	Showing	Indication
LED 1 <i>Registration & Activation</i>	Green	Solid On	Unit is activated at the TCC and enabled
	Amber	Solid On	Unit is not registered and disabled
	Red	Solid On	Unit is registered but has been disabled OR Activation failed
LED 2 <i>Cellular Radio Status</i>	Green	Solid On	Cellular radio registered with network
		Slow Flash	Cellular radio initializing
		Flickering	Cellular data activity
	Amber	Solid On (1 second)	Cellular SMS activity
	Red	Solid On	Cellular radio disabled
	-	Off	Cellular radio unregistered with network
LED 3 <i>Wi-Fi Status</i>	Green	Solid On	Wi-Fi associated with customer's access point
		Slow Flash	Wi-Fi not associated with an access point
		Flickering	Wi-Fi data activity
	Amber	Solid On	Wi-Fi associated with customer's access point but not communicating with TCC
		Flickering	Establishing communication with TCC
	Red	Slow Flash	Wi-Fi Configuration Access Point Enabled
	-	Off	Wi-Fi turned off
LED 4 <i>Telguard Status (STC)</i>	Red	1 Flash	Unused
		2 Flashes	Unused
		3 Flashes	Unused
		4 Flashes	NSC: No Service Condition
		5 Flashes	RFC: Radio communication Failure
		6 Flashes	Unused
		7 Flashes	Unused
	-	Off	All OK

Appendix 3 – Detailed Specifications

Dialer to Interface Electronics

- Line voltage: -48 VDC On-hook
- Dial tone: Precision 350 + 440Hz +/- 1%
- Mode: Forward Active, 30mA

Power Consumption

- 12V DC, 103mA (standby), 350mA (transmitting)

Radio

The Telguard TGSCIPG01 is a wireless device that supports WCDMA/HSPA.

- Frequency range:
 - Band 2, WCDMA/HSPA, 1850 - 1990 MHz
 - Band 5, WCDMA/HSPA, 824 – 894 MHz
 - GSM 850, GPRS & EDGE, 824 – 894 MHz
 - GSM 1900, GPRS & EDGE, 1850 – 1990 MHz
- Receiver Sensitivity:
 - Band 2, WCDMA/HSPA, -109 dBm
 - Band 5, WCDMA/HSPA, -109 dBm
 - GSM 850, GPRS, -110 dBm
 - GSM 850, EDGE, -104 dBm
 - GSM 1900, GPRS, -110 dBm
 - GSM 1900, EDGE, -104 dBm
- Transmit Power:
 - Band 2, WCDMA/HSPA, 23.0 dBm (+/- 1 dB)
 - Band 5, WCDMA/HSPA, 23.0 dBm (+/- 1 dB)
 - GSM 850, GPRS, 32.0 dBm (+/- 1 dB)
 - GSM 850, EDGE, 27.0 dBm (+/- 1 dB)
 - GSM 1900, GPRS, 29.0 dBm (+/- 1 dB)
 - GSM 1900, EDGE, 26.0 dBm (+/- 1 dB)
- Contains FCC ID PKRNVWSA1100
- Primary Antenna: Monopole internal antenna
- Physical Dimensions: 180mm x 111mm x 48mm (7.09in x 4.37in x 1.89in)
- Shipping Weight: 2.5lb
- Operating Environment: 0° C to +49° C (32° F to 120° F)