TELGUARD

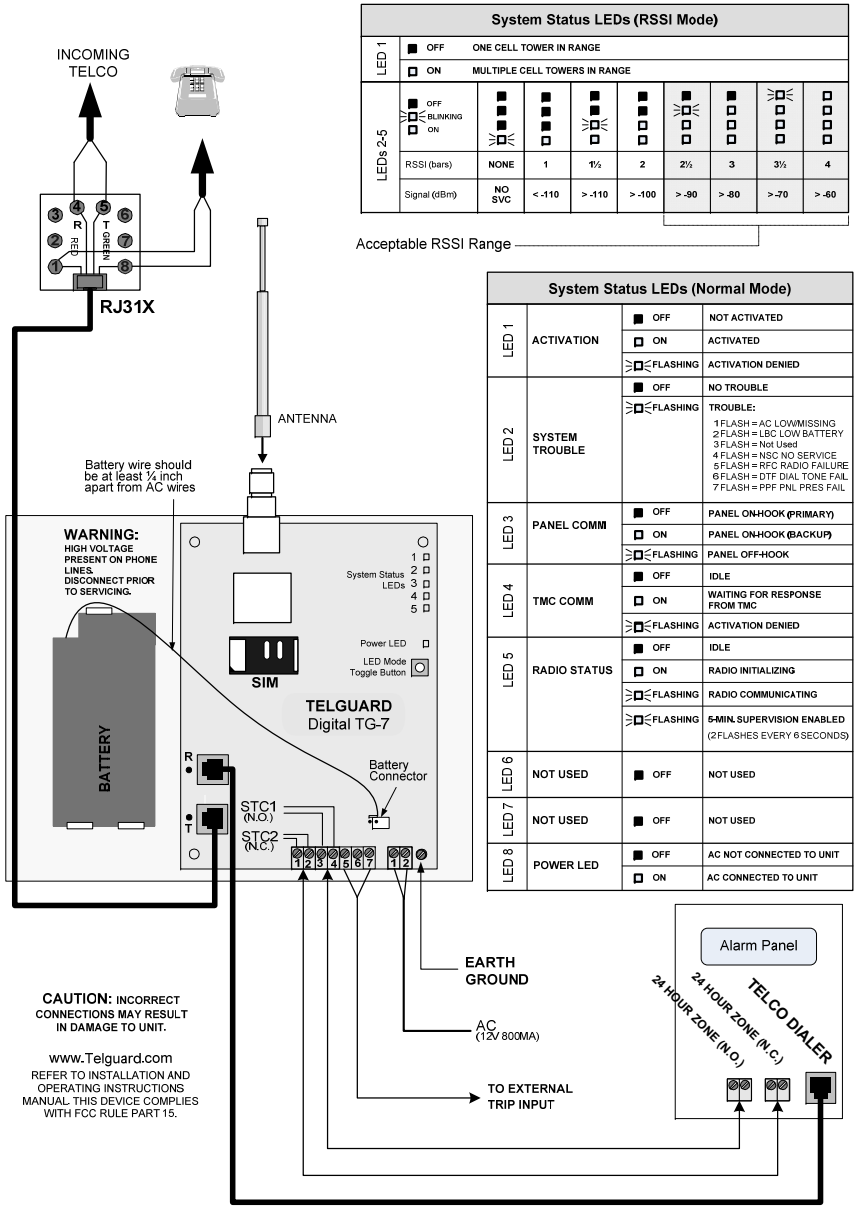
Telguard TG-7 Series
Quick Installation Guide

SECURITY SIGNALING UL LISTED

May 31, 2011

Telguard TG-7 Series

QUICK INSTALLATION GUIDE [BACKUP MODE]



System Status LEDs (RSSI Mode)

LED 1	■ OFF	ONE CELL TOWER IN RANGE							
	□ ON	MULTIPLE CELL TOWERS IN RANGE							
LEDs 2-5	■ OFF, □ BLINKING, □ ON	■ ■ ■ □	■ ■ ■ □	■ ■ ■ □	■ ■ □ □	■ □ □ □	■ □ □ □	□ □ □ □	□ □ □ □
	RSSI (bars)	NONE	1	1½	2	2½	3	3½	4
	Signal (dBm)	NO SVC	< -110	> -110	> -100	> -90	> -80	> -70	> -60

Acceptable RSSI Range

System Status LEDs (Normal Mode)

LED 1	ACTIVATION	■ OFF	NOT ACTIVATED
		□ ON	ACTIVATED
		□ FLASHING	ACTIVATION DENIED
LED 2	SYSTEM TROUBLE	■ OFF	NO TROUBLE
		□ FLASHING	TROUBLE: 1 FLASH = AC LOW/MISSING 2 FLASH = LBC LOW BATTERY 3 FLASH = Not Used 4 FLASH = NSC NO SERVICE 5 FLASH = RFC RADIO FAILURE 6 FLASH = DTF DIAL TONE FAIL 7 FLASH = PPF PNL PRES FAIL
LED 3	PANEL COMM	■ OFF	PANEL ON-HOOK (PRIMARY)
		□ ON	PANEL ON-HOOK (BACKUP)
		□ FLASHING	PANEL OFF-HOOK
LED 4	TMC COMM	■ OFF	IDLE
		□ ON	WAITING FOR RESPONSE FROM TMC
		□ FLASHING	ACTIVATION DENIED
LED 5	RADIO STATUS	■ OFF	IDLE
		□ ON	RADIO INITIALIZING
		□ FLASHING	RADIO COMMUNICATING
		□ FLASHING	5-MIN. SUPERVISION ENABLED (2 FLASHES EVERY 6 SECONDS)
LED 6	NOT USED	■ OFF	NOT USED
LED 7	NOT USED	■ OFF	NOT USED
LED 8	POWER LED	■ OFF	AC NOT CONNECTED TO UNIT
		□ ON	AC CONNECTED TO UNIT

Installation Summary

There are seven steps in installing Telguard properly. **IF YOU DO NOT PROCEED IN THE ORDER AND MANNER PRESCRIBED, YOU MAY NOT COMPLETE THE INSTALLATION IN THE TIME ALLOCATED.**

STEP 1: REGISTER FOR CELLULAR SERVICE

Complete the Registration online at www.telguardonline.com or email/fax the form to Telguard Customer Service prior to leaving for the job site. Telular requires this information to register and activate the unit.

STEP 2: LOCATE UNIT AND MEASURE SIGNAL STRENGTH (RSSI)

First, you will be confirming that Telguard has adequate cellular signal strength. Press the LED/RSSI Mode Toggle button one time, LEDs will now indicate signal strength. Minimum recommended is 2 ½ (2 on solid and the third flashing). Press the LED/RSSI Mode Toggle button a second time to exit RSSI mode.

STEP 3: TRANSMIT PANEL ALARMS OVER THE TELCO CONNECTION

Once you have confirmed that the unit is registered, you will be ready to verify that the alarm panel is programmed properly. This step is important to verify that the alarm panel is programmed with valid account code and central station information before transmitting signals through the cellular network.

STEP 4: PROGRAM, ACTIVATE & TRANSMIT PANEL ALARMS OVER THE CELLULAR RADIO NETWORK

Next, you will be connecting the alarm panel's digital dialer output to Telguard and verifying that alarm signals can be reliably sent through Telguard over cellular to the central station digital receiver. The incoming Telco line is **not** connected to Telguard during this step. A minimum of two alarm signals must be transmitted.

(NOTE: THE FIRST ALARM WILL ACTIVATE THE UNIT AT THE TELULAR COMMUNICATION CENTER, IT WILL NOT GO TO THE CENTRAL STATION, ALL SIGNALS AFTER THE FIRST ARE SENT TO THE CENTRAL STATION)

STEP 5: CONNECT SUPERVISORY TRIP OUTPUTS

Next, you will wire Telguard's supervisory trip outputs to the alarm panel and then test.

STEP 6: CONNECT TRIP INPUT (OPTIONAL)

Optionally, you can wire the external relay input to the trip input lead and ground, and test.

STEP 7: COMPLETE THE INSTALLATION

Your last step will be to attach earth ground, reconnect Telco, and permanently mount the unit. The LED/RSSI mode will reset to normal after 10 minutes.

System Status LEDs (RSSI Mode)									
LED 1	■ OFF ONE CELL TOWER IN RANGE								
	□ ON MULTIPLE CELL TOWERS IN RANGE								
LEDs 2-5	■ OFF □ BLINKING □ ON	■ □ □ □	■ ■ □ □	■ ■ ■ □	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	□ □ □ □
	RSSI (bars)	NONE	1	1½	2	2½	3	3½	4
	Signal (dBm)	NO SVC	< -110	> -110	> -100	> -90	> -80	> -70	> -60

Acceptable RSSI Range

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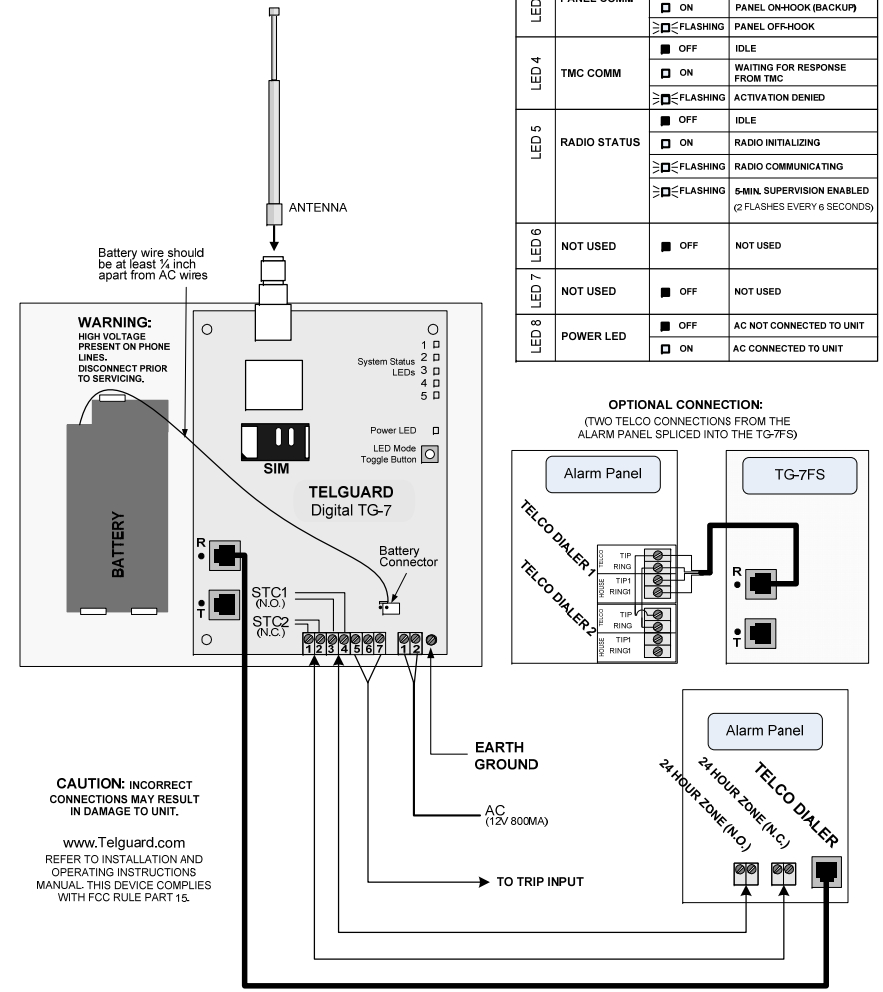
LED 7	NOT USED	■ OFF	NOT USED
LED 8	POWER LED	■ OFF	AC NOT CONNECTED TO UNIT
		□ ON	AC CONNECTED TO UNIT



Telguard TG-7 Series

QUICK INSTALLATION GUIDE [SOLE PATH]

Installation Summary

There are seven steps in installing Telguard properly. **IF YOU DO NOT PROCEED IN THE ORDER AND MANNER PRESCRIBED, YOU MAY NOT COMPLETE THE INSTALLATION IN THE TIME ALLOCATED.**

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Complete the Registration online at www.telguardonline.com or email/fax the form to Telguard Customer Service prior to leaving for the job site. Telular requires this information to register and activate the unit.

STEP 2: LOCATE UNIT AND MEASURE SIGNAL STRENGTH (RSSI)

First, you will be confirming that Telguard has adequate cellular signal strength. Press the LED/RSSI Mode Toggle button one time, LEDs will now indicate signal strength. Minimum recommended is 3 (3 on solid) with multiple towers in range (LED 1 on solid). Press the LED/RSSI Mode Toggle button a second time to exit RSSI mode.

STEP 3: CONFIGURE ALARM PANEL FOR SOLE PATH CONNECTION

Fire panels are typically provided with two Telco connections. Because the TG-7 provides a single connection, the panel must be set up accordingly. The first method of installation is to configure the panel to disable the second Telco connection. If this is not an option due to panel limitations, it is possible to splice both TIP and RING connections from the panel into the single jack of the Telguard. The TG-7 is capable of providing dial tone to both Telco connections.

STEP 4: PROGRAM, ACTIVATE & TRANSMIT PANEL ALARMS OVER THE CELLULAR RADIO NETWORK

Program the TG-7 for Sole Path communication. You may do this by setting Memory Location 831 to a value of 3, using a butt-set. (See programming guide on reverse). LED 3 will be off when idle, if successful. Next, connect the alarm panel's digital dialer output to Telguard and verify that alarm signals can be reliably sent through Telguard over cellular to the central station digital receiver. A minimum of two alarm signals must be transmitted.

(NOTE: THE FIRST ALARM WILL ACTIVATE THE UNIT AT THE TELULAR COMMUNICATION CENTER, IT WILL NOT GO TO THE CENTRAL STATION, ALL SIGNALS AFTER THE FIRST ARE SENT TO THE CENTRAL STATION)

STEP 5: CONNECT SUPERVISORY TRIP OUTPUTS

Next, you will wire Telguard's supervisory trip outputs to the alarm panel and then test.

STEP 6: CONNECT TRIP INPUT (OPTIONAL)

Optionally, you can wire the external relay input to the trip input lead and ground, and test.

STEP 7: COMPLETE THE INSTALLATION

Your last step will be to attach earth ground, and permanently mount the unit. The LED/RSSI mode will reset to normal after 10 minutes.

Setup & Programming the Operating Parameters in the Telguard TG-7 models

When the Telguard is received from the factory, registered and is powered up for the first time, it is ready for activation, provided the default settings are what you want. The STC LED # 2 will flash to indicate any failure conditions. The Mode LED # 3 will be on and the STC 1 and STC 2 relays will be tripped. The Telguard can be programmed using a line-mans butt-set connected to T & R Test Points.

TO PROGRAM THE Telguard TG-7

A. Put the line-mans butt-set in talk mode. **B.** Dial "###', you will hear 2 beeps. **C.** Press #, *, this will put the Telguard into a Master Access programming mode, 2 beeps. **D.** Enter changes required. The syntax for programming a specific memory location is as follows: **MEMORY LOCATION (3-digits), will respond with 2 beeps, then VALUE, will respond with 2 beeps**. **E.** Then press *, you will hear 2 beeps then hang up. This saves the change and exits the programming mode.

Mem Loc.	Field	Default Value	Setting
831	Mode of operation	01	**1 = Telco Primary/Cellular Backup** 2 = Cellular Primary/Telco Backup 3 = Cell Only
833	C/C Reporting Format	09	01 = 4x2 pulse, 40pps 2300 hz 02 = 4x2 pulse, 20pps 2300 hz 03 = 4x2 pulse, 10pps 1400 hz 04 = 3x1 pulse, 40pps, 2300 hz 05 = 3x1 pulse, 20pps, 2300 hz 06 = 3x1 pulse, 10pps, 1400 hz 07 = Radionics IIe or IIIa2 08 = Contact ID **09 = Auto Format Detect** 11 = SIA2 (300 Baud) 12 = DMP
850	STC1 Trip Output Reporting Normally Open	04 (LFC only)	Enter the SUM TOTAL of the events that you wish to trip the STC relay by ADDING the corresponding values: 00 = Not Used 04 = LFC 32 = DTF 01 = AC Failure 08 = NSC 63 = ALL 02 = Low Battery 16 = RFC
851	STC2 Trip Output Reporting Normally Closed	59 (all except LFC)	Enter the SUM TOTAL of the events that you wish to trip the STC relay by ADDING the corresponding values: 00 = Not Used 04 = LFC 32 = DTF 01 = AC Failure 08 = NSC 63 = ALL 02 = Low Battery 16 = RFC
852	STC Trip Delay for NSC	2 (60 sec)	1=30 seconds 4=10 minutes 7=45 minutes 2=60 seconds 5=20 minutes 8=60 minutes 3=3 minutes 6=30 minutes 9=24 hours
858	STC History	N/A	0 = terminate STC history display mode 1 = start STC history display mode 2 = clear STC history
861	CFC Number of Events	0 (disabled)	0 = disabled 2 = 4 attempts 1 = 2 attempts 3 = 8 attempts
862	CFC Between Events	1 (30 sec)	1 = 30 seconds 3 = 70 seconds 5 = 90 seconds 2 = 60 seconds 4 = 80 seconds 6 = 99 seconds
868	PPF Delay	0 (disabled)	0 = disabled, 1 = 10 seconds, 2=20 seconds, … 15=150 seconds
872	AC Failure Delay	02 (2 hours)	0-24 hours
873	Trip Input Reporting	0 (no report)	0 = no report 1 = report trip
874	Trip Input Restoral Reporting	0 (no report)	0 = no report 1 = report restoral
875	Trip Input Swinger Function	0 (disabled)	0 = swinger function disabled 1 = swinger function enabled
899	Factory Default Unit		

NOTE: SPECIAL LED INDICATIONS DURING ACTIVATION If the Telguard fails to confirm activation it will be displayed on the LEDS:

System Status LEDs	Activation Indications
LEDS 1-5 FLASHING	FAILED ACTIVATION – SIGNAL TOO WEAK
LED #1 & LED #4 FLASHING	ACTIVATION ERROR – CALL TECH SUPPORT
LED #1 ON	ACTIVATION SUCCESSFUL
LED #1 Off NOT ACTIVATED	NEED TO CONNECT PANEL AND TRIP ZONE

On either a FAILED ACTIVATION or ACTIVATION ERROR, the unit MUST BE RESET BY PRESSING THE RSSI BUTTON TWICE. The activation message MUST BE RESENT or the TELGUARD will not transmit signals through the cellular network. Repeat step 4 above.