

Telguard Digital model TG-1

QUICK INSTALLATION GUIDE

Installation Summary

There are five 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 Activation Form online at www.Telguard.com or fax the form to Telular Cellular 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)

Second, you will be confirming that Telguard has adequate cellular signal strength. Put J10 across both pins, LEDs will now indicate signal strength, minimum recommended is 2 ½ (2 on solid and the third flashing).

STEP 3: PROGRAM, ACTIVATE & TRANSMIT C/C ALARMS OVER THE CELLULAR RADIO NETWORK

Next, you will be programming the Telguard unless the default settings are what you want. Then connect the C/C's digital dialer output to Telguard and verify that alarm signals can be reliably sent over cellular to the central station digital receiver. A minimum of two alarm signals must be transmitted.

(NOTE: THE FIRST ALARM WILL CONFIRM REGISTRATION AND ACTIVATE THE UNIT WITH THE TELULAR COMMUNICATION CENTER. IT WILL NOT BE TRANSMITTED TO THE CENTRAL STATION. ALL SIGNALS AFTER THE FIRST ARE SENT TO THE CENTRAL STATION.)

STEP 4: CONNECT SUPERVISORY TRIP OUTPUTS

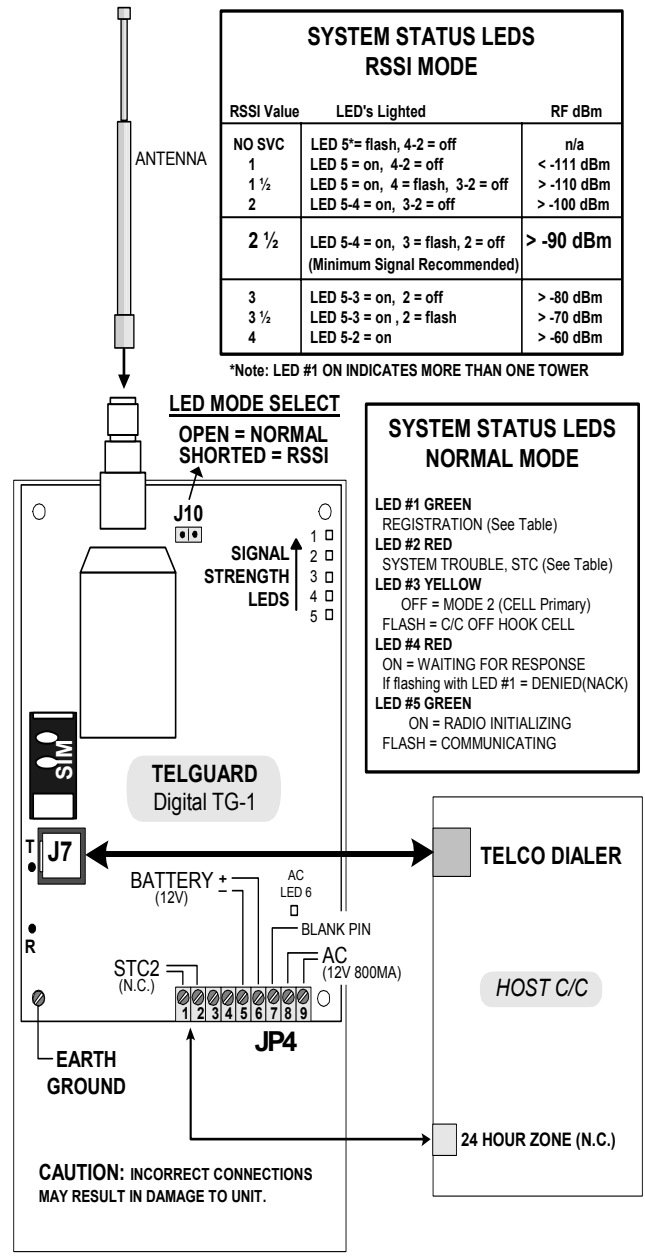
Next, you will wire Telguard's supervisory trip output to the C/C and then test.

STEP 5: COMPLETE THE INSTALLATION

Your last step will be to check the jumper setting of J10 (LED mode, open = normal), attach earth ground, and permanently mount the unit.

SYSTEM STATUS LEDs RSSI MODE		
RSSI Value	LED's Lighted	RF dBm
NO SVC	LED 5 = flash, 4-2 = off	n/a
1	LED 5 = on, 4-2 = off	< -111 dBm
1 ½	LED 5 = on, 4 = flash, 3-2 = off	> -110 dBm
2	LED 5-4 = on, 3-2 = off	> -100 dBm
2 ½	LED 5-4 = on, 3 = flash, 2 = off (Minimum Signal Recommended)	> -90 dBm
3	LED 5-3 = on, 2 = off	> -80 dBm
3 ½	LED 5-3 = on, 2 = flash	> -70 dBm
4	LED 5-2 = on	> -60 dBm

*Note: LED #1 ON INDICATES MORE THAN ONE TOWER



SYSTEM STATUS LEDs NORMAL MODE	
LED #1 GREEN	REGISTRATION (See Table)
LED #2 RED	SYSTEM TROUBLE, STC (See Table)
LED #3 YELLOW	OFF = MODE 2 (CELL Primary) FLASH = C/C OFF HOOK CELL
LED #4 RED	ON = WAITING FOR RESPONSE If flashing with LED #1 = DENIED(NACK)
LED #5 GREEN	ON = RADIO INITIALIZING FLASH = COMMUNICATING

SYSTEM TROUBLE, STC (LED #2)
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

REGISTRATION (LED #1)
ON = UNIT REGISTERED
OFF = UNIT NOT REGISTERED
If flashing with LED #4 = DENIED(NACK), Call Technical Support.
If all LED's flashing = NO RESPONSE, Check Signal Strength.

www.Telguard.com
REFER TO INSTALLATION AND OPERATING
INSTRUCTIONS MANUAL. THIS DEVICE
COMPLIES WITH FCC RULE PART 15.

TELULAR CORPORATION
420 Thornton Road, Suite 109
Lithia Springs, GA 30122
(800) 229-2326 Fax: 678-945-1651

Setup & Programming the Operating Parameters in the Telguard

When the Telguard is received from the factory and is powered up for the first time, it is immediately ready to confirm registration & activate, provided the default settings are what you want (Note: Activation Form must be sent to Telular prior to activation). The STC LED #2 will flash to indicate any failure conditions. The yellow MODE LED #3 will be off and the STC relay will be tripped. If changes are required to the default settings, the Telguard can be programmed using a line-mans butt-set connected to T & R Test Points or a POTS phone connected to J7 (where the C/C is normally connected).

TO PROGRAM THE TELGUARD

- A. Put the line-mans butt-set in talk mode or pick up the POTS phone.
- B. Connect power to the Telguard, when ready for programming 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
851	STC Trip Output Reporting Normally Closed	27	Enter the SUM TOTAL of the events that you wish to trip the STC relay by ADDING the corresponding values: 00 = STC Trip Input Not Used 01 = AC Failure 04 = not used 16 = RFC 02 = Low Battery 08 = NSC 31 = All
852	STC Trip Delay for NSC	1	1=30 Seconds 2=60 Seconds
861	CFC Number of Events	0	0 = disabled 2 = 4 attempts 1 = 2 attempts 3 = 8 attempts
862	CFC between Events	1	1 = 30 seconds 3 = 70 seconds 5 = 90 seconds 2 = 60 seconds 4 = 80 seconds 6 = 99 seconds
872	AC Failure Delay	02	0-24 hours, default = 2 hours
899	Factory Default Unit		

NOTE: SPECIAL LED INDICATIONS DURING ACTIVATION

If the Telguard fails to confirm registration it will be displayed on the LEDS:

SYSTEM STATUS LEDS	REGISTRATION INDICATIONS
ALL LEDS FLASHING	FAILED REGISTRATION – SIGNAL TOO WEAK
LED #1 & LED #4 FLASHING	REGISTRATION ERROR – CALL TECHNICAL SUPPORT
LED #1 ON	REGISTRATION SUCCESSFUL

On either a **FAILED** or **REGISTRATION ERROR**, the unit **MUST BE RESET** by putting the J10 (RSSI jumper) in the “**SHORTED**” position. The registration **MESSAGE MUST BE RESENT** or the **TELGUARD will NOT TRANSMIT** any signals.