System Status LEDs (RSSI Mode)

■ OFF / □ BLINKING / □ ON								
LEDs 2-5								
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 (DISABLED)
LED 2	SYSTEM TROUBLE	■ OFF	NO TROUBLE
		□ FLASHING	TROUBLE: 1 FLASH = ACFC LOW/MISSING AC LPF LOW DC INPUT / 2 FLASH = LBC LOW BATTERY / 3 FLASH = LFC LINE FAULT / 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 TCC
		□ FLASHING	ACTIVATION DENIED
LED 5	RADIO STATUS	■ OFF	IDLE
		□ ON	RADIO INITIALIZING
		□ FLASHING	RADIO COMMUNICATING
		□ FLASHING	STANDARD LINE SECURITY ENABLED (2 FLASHES EVERY 5 SECONDS)
LED 6	NOT USED	■ OFF	NOT USED
LED 7	NOT USED	■ OFF	NOT USED
LED 8	POWER LED	■ OFF	AC NOT CONNECTED UNIT MAY BE RECEIVING POWER FROM DC/BATTERY
		□ ON	AC CONNECTED TO UNIT

Telguard Model TG-4

QUICK INSTALLATION GUIDE

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

Register the unit online through www.telguardonline.com, by completing the Online Registration Form at www.Telguard.com. Telular requires this information to 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 Mode Toggle button, LEDs will now indicate signal strength. Minimum recommended is 2 ½ (2 on solid and the third flashing).). The LED Mode will reset to normal automatically after 10 minutes or after pressing the LED Mode Toggle button again.

STEP 3: TRANSMIT PANEL ALARMS OVER THE TELCO CONNECTION

Next, you will 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. Activation is confirmed when LED 1 is illuminated.

(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 an 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.

56044002
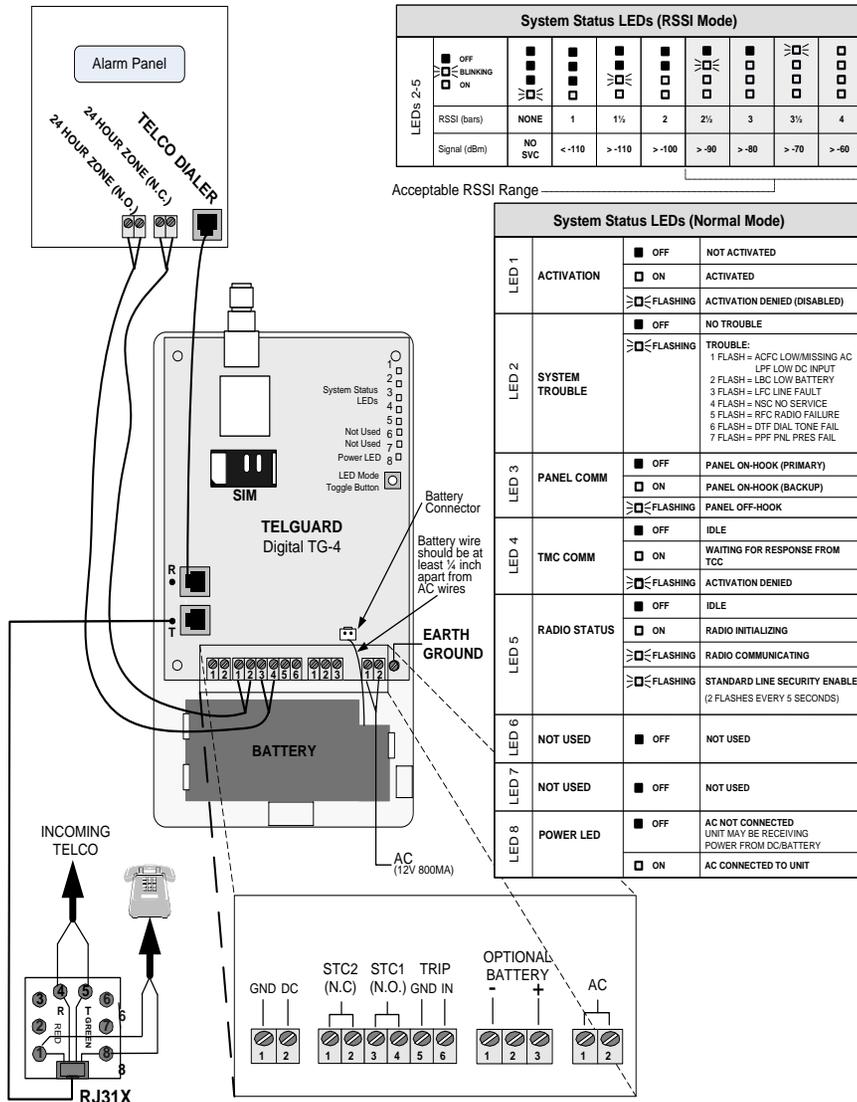
Setup & Programming the Operating Parameters in the Telguard TG-4

When the Telguard is received from the factory and is powered up for the first time, it is immediately ready for activation, provided the default settings are what you want (note: registration form must be sent to Telular). 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. 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 the panel RJ-45 jack (black connector where the alarm panel is normally connected).

TO PROGRAM THE Telguard TG-4

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
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
ALL LEDS FLASHING	FAILED ACTIVATION – SIGNAL TOO WEAK
LED #1 & LED #4 FLASHING	ACTIVATION ERROR – CALL TECH SUPPORT
LED #1 ON	ACTIVATION SUCCESSFUL
LED #2 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 transmit all signals through the telco connection.