



TELGUARD

TG-7FS INSPECTION CHECKLIST

Compliant with the 2013 Edition of NFPA 72, the TG-7FS can serve as the sole communications path for the fire alarm system, replacing all of the landlines currently dedicated to the master control unit. By being able to signal failures to the central station within sixty minutes of an outage, the TG-7FS can be installed as the sole path of communications for commercial fire installations. For existing installations, all landlines can be swapped for a single TG-7FS because of the sixty minute supervision mode. The TG-7FS can also be installed as a backup path, and upgraded to sole path at a later date.

In an effort to help facilitate the inspection of the TG-7FS, we have put the following checklist together for your use.

REQUIREMENTS

Requirement	Commercial Fire Sole Path	Commercial Fire Backup	✓
AC transformer lines in flexible conduit.	Required	Required	
AC transformer plugged into un-switched outlet.	Required	Required	
AC transformer plugged into dedicated branch circuit.	Required	Required	
Antenna cable in flexible conduit concealed.	Required	Required	
12V battery backup requirement (minimum of 7AH to ensure 24hrs standby + 60 minute transmit).	Required	Required	
AC and battery failure supervision.	Required	Required	
60-minute supervision.	Required	Not Required	

REQUIRED INSPECTIONS:

TG-7FS LED DISPLAY

Visually inspect the LED display while on Standby. Make sure the LEDs show as described below:

LED Display	Commercial Fire Sole Path	Commercial Fire Backup	✓
LED D1	ON	ON	
LED D2	OFF	OFF	
LED D3	OFF	ON	
LED D4	OFF	OFF	
LED D5	2 FLASHES EVERY 5 SECONDS	OFF	
LED D8	ON	ON	

SYSTEM TROUBLE CONDITION OUTPUTS

Inspect to make sure that the STC outputs are connected to a monitored zone in the panel. Furthermore, make sure that the TG-7FS device notices the loss of AC power, battery connection and Cellular signal.

CHECKING FOR AC FAILURE SUPERVISION:

- When you remove the connection to the AC source:
 - LED 8 will turn off.
 - LED 2 will begin to flash in a pattern of a single flash every two seconds.
 - The relay in that set of STC outputs will trigger after a programmed time (standard is 2 hours).
- When you reconnect the AC connection, both of these conditions will clear:
 - LED 8 will turn on.
 - LED 2 will turn off.
 - If the relay was active, it will clear after 60 seconds.

CHECKING FOR BATTERY CONNECTION SUPERVISION:

- When you remove the battery connection:
 - LED 2 will begin to flash in a pattern of two flashes every two seconds.
 - The relay in that set of STC outputs will trigger in less than 60 seconds.
- When you reconnect the battery:
 - LED 2 will turn off.
 - If the relay was active, it will clear in less than 60 seconds.

CHECKING FOR SIGNAL LOSS SUPERVISION:

1. When you disconnect the antenna:
 - a. LED 2 will begin to flash in a pattern of 4 flashes every two seconds.
 - b. The relay in that set of STC outputs will trigger in 60 seconds (reprogrammable).
 - c. If the Telguard unit does not have a Telco line connected, the Tip and Ring connections from the Telguard device will stop producing voltage.
2. When you reconnect the antenna:
 - a. LED 2 will turn off after the unit establishes a connection to the network.
 - b. If the relay was active, it will clear after reestablishing connection.
 - c. The voltage produced by the Tip and Ring will return.

SIGNAL DELIVERY VERIFICATION

Inspect to make sure that the TG-7FS will deliver an alarm event from the Alarm Panel to the Monitoring Station within the required 90 seconds.

1. Make sure that the TG-7FS is the only means of communication for the Alarm Panel.
2. Trigger the Alarm Panel so that it attempts to transmit an event to the monitoring Station.
3. Look at LED 3.
 - a. LED 3 will be either lit or off when it is in idle mode. It will only flash when the tip and ring connections are off-hook
4. When LED 3 begins to flash, start the timer.
 - a. Contact the Monitoring Station and wait for the alarm event to arrive.
 - b. The event code should arrive to the Monitoring Station within 90 seconds.

SOLE PATH SUPERVISION

Inspect to make sure that the system will deliver a Supervised Communication failure message to the Monitoring Station within 60 minutes of a confirmed loss of communication.

1. Power down the unit completely.
 - a. Remove both AC and Battery connections from the unit.
 - b. Make sure that no LEDs are lit.
 - c. Start the timer.
2. Contact the Monitoring Station and wait for the failure message to arrive.
 - a. During the registration process of the device, a failure and a restoral code was submitted. Depending on the alarm format used, this code may vary.
 - b. Look for the Central Station to be contacted by our Messaging Center within 60 minutes of the unit being powered down to deliver this code.

Note: Due to the 60 minute timeframe that the unit has to wait to report the failure, on-site testing of this feature will be time-consuming and may not be feasible during an inspection.

SUGGESTED INSPECTIONS:

The following are suggested inspections to maximize the efficiency of the device.

TG-7FS SIGNAL STRENGTH

1. Press the RSSI Toggle button, and take note of the LEDs.
2. Below are the minimum requirements for each type of installation. These represent the minimum manufacturer recommended signal strength for proper operation. If more LEDs are on, the unit will have a better signal strength.

LED	Commercial Fire Sole Path	Commercial Fire Backup	✓
LED D1	IGNORE	IGNORE	✓
LED D2	OFF	OFF	
LED D3	ON	FLASHING/ON	
LED D4	ON	ON	
LED D5	ON	ON	