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ONE YEAR LIMITED WARRANTY

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Fire Burglary Instruments, Inc.
A Subsidiary of Pittway Corp.

XL STAR

XL4600DL

NOTE: Owners manual not to be removed by anyone but the occupant.

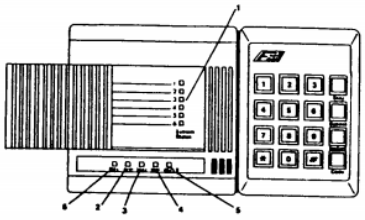
Owners Manual

Fire Burglary Instruments, Inc.
A Subsidiary of Pittway Corp.
163 Eileen Way, Syosset, NY 11791

FI2524 Rev. 4/91

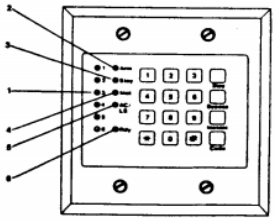
1. KEYPAD LAYOUT

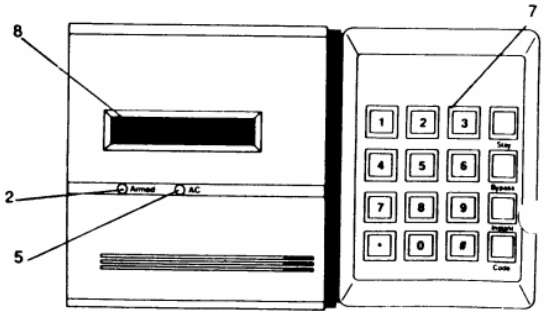
The keypad is the arming station for the STAR XL4600DL. Three different versions are available, a metal plate flush mounted version (XL4600RM), a plastic cased surface mount version, and an LCD (liquid crystal display) version containing a two line readout. The keypads have the following appearance and contain the following items;



XL 4600 RP Keypad

XL 4600 RM Keypad





1) ZONE STATUS INDICATORS - displays the current zone status as follows;

ALARM	Fast blinking.
BYPASS	Slow blinking low intensity.
TROUBLE	Slow pulse
NOT READY	Solid ON

2) ARM/DISARM INDICATOR -Shows whether the system is currently armed (ON) or disarmed (OFF).

3) STAY- shows the system has been armed with the interior zones bypassed.

4) INSTANT - shows whether the system has been ARMED with all delay zones instant.

5) AC/LOW BATTERY - shows whether the system is running on AC (ON) or backup battery (OFF).

6) READY Indicates whether the system is ready for arming.

7) NUMERICAL KEYPAD operates in a similar manner to a calculator or telephone with the digits 0 - 9 and * # clearly marked.

8) DISPLAY AREA - This section of the LCD keypad displays the current system status in this two line by sixteen character display. The second line of this display can be programmed by your installer to contain customized descriptors for the areas of protection within your location.

Throughout this users manual the following conventions are used to display the keystrokes required to perform the functions.

BYPASS	Key labeled BYPASS on keypad.
INSTANT	Key labeled INSTANT on keypad.
STAY	Key labeled STAY on keypad.
CODE	Key labeled CODE on keypad
[USER]	Four digit user code.

2. ARMING THE SYSTEM

ARMING the system will activate all portions of your Security System. Arming can only be performed if all zones are READY. For example, if a protected door is open the system cannot be armed.

SYSTEM READY

The system is ready to be armed if the READY indicator light ON.
On LCD keypads the following display will appear:

SYSTEM READY

If the system is ready, ARMING can be performed as follows;

ARMING PROCEDURE:

1. Enter your four digit user code into the keypad:
   [USER]

The ARMED indicator light will now be lit and if you are leaving the home you may exit through a door designated by your installer as an exit/entry zone for a fixed time period known as the exit delay.
The entry exit times for your system are as follows;

ENTRY: _____ seconds- **EXIT:** _____ seconds

LCD keypads will display the following message;

ON AWAY .....

NOTE: The system can be armed without the backup battery being connected.

SYSTEM NOT READY

If the system is not ready to be armed the READY indicator will be OFF. On LED based keypads the zone indicator lights will display the zones which are currently not ready. The condition of each zone indicator reflects what the status of each zone as follows;

ALARM	Fast blinking.
BYPASS	Slow blinking low intensity.
TROUBLE	Slow pulse
NOT READY	Solid ON

The LCD keypad a display will appear indicating that the system is not ready followed by displays showing the zone number and description of the zone or zones which are not ready. For example:

SYSTEM NOT READY

NOT RDY ZN 01 FRONT DOOR

In this example, the front door is not ready (Zone 1).
In order to make the system ready determine which zones are not ready by observing the zone indicator lights, or the display section of the LCD keypad. From the zone number you can find out which area of protection is not ready.

For example, assume the zone 1 is not ready. Typically this might mean that a protected door or window is open.

>> Once the problems with each zone has been resolved the READY light will appear and the system can be armed.

To ARM the system when the system is NOT READY one of the following actions are necessary;

- Make the zone(s) ready. Determine which zones are not ready and perform what is necessary to ready the zone(s) (example, close the door or window, etc.),or
- Bypass the zone(s) not ready. Bypassing should only be performed if the zone cannot be made ready or intentionally will remain not ready. Remember, zones that are bypassed are **not** protected when the system is armed.

3. DISARMING

Disarming the security system will deactivate the burglary portions of the system.

This procedure can also be used to reset your system if you accidentally set off the system (example, opened a window while the system was armed, or excessive amount of smoke activated fire protection system).

DISARM PROCEDURE:

[USER]

Enter your user code.

IF NO ALARMS HAVE TAKEN PLACE

Upon disarming the ARMING indicator will go off.

The system display will reflect the current status. LCD keypads should display the SYSTEM READY display.

IF ALARMS HAVE TAKEN PLACE

If alarms or other conditions such as system troubles have taken place since the initial system arming, they will appear on the display. The conditions that have occurred appear in the zone display section of the keypad. LCD keypads will reflect the current system status through the indicator lights as follows;

ALARM	Fast blinking.
BYPASS	Slow blinking low intensity.
TROUBLE	Slow pulse
NOT READY	Solid ON

Burglary alarms will be indicated with a STEADY sound through the keypad while FIRE alarms will generate a pulsing sound.

LCD keypads will show the alarm conditions with a display as follows:

ALARM ZN 01 FRONT DOOR

This display shows the zones in alarm. After entry of your four digit user code the following display will appear:

ALARM MEM ZN 01 FRONT DOOR

If an intrusion has taken place while you were away, do not enter until the location has been secured!!!.

>> To clear the display of the alarm or trouble conditions and silence the audible signal enter **[USER]** again.

4. STAY

The STAY mode is another way to ARM your system while you remain in the location. The STAY mode will deactivate any interior protection zones which means that you will be free to walk throughout your location without activating the alarm system.

In order to enter the STAY mode, the system must be READY. (see previous description).

STAY PROCEDURE:

STAY [USER]

Depress the STAY key followed by your user code.

After a successful STAY arming the ARMED indicator will be lit. In addition, on LED keypads the STAY indicator will be lit.

In LCD keypads the following display will appear;

ON: STAY

In the STAY mode only the external or perimeter burglary protection is active. You are free to walk around the residence without activating any of the interior protection zones.

>> Remember, you must DISARM the system to when you want to leave the premise.

Note: The STAY option will automatically be reset after the system is disarmed.

5. INSTANT

The INSTANT mode arms the system and eliminates the entry time delay interval. This mode could be used if anyone enters through an entry/exit zone the alarm system will instantly activate.

The system must be ready to select the INSTANT option.

INSTANT PROCEDURE:

INSTANT [USER]

Depress the INSTANT key followed by your user code.

Upon successful INSTANT ARMING of the system the ARMED indicator will be lit. In addition, on LED keypads the Instant indicator will be ON.

LCD keypads will contain the following message;

ON:INSTANT

Note: The INSTANT option will automatically be reset after the system is disarmed.

6. INSTANT - STAY

The INSTANT STAY mode will arm the system with the characteristics of both the INSTANT and STAY modes. The system will be armed with the interior portions bypassed and the entry delay will be suspended.

The system must be READY in order to enter this mode.

PROCEDURE:

INSTANT STAY [USER]

or

STAY INSTANT [USER]

Depress the INSTANT and STAY keys in any order followed by your user code.

After a successful INSTANT STAY arming the ARMED indicator will be lit. In addition, on LED keypads both the INSTANT and STAY lights will be on.

LCD keypads will contain the following message;

ON:STAY INSTANT

7. BYPASS

Bypasses are performed to eliminate burglary zones that are not ready or faulty from activating the security system.

BYPASS PROCEDURE:

BYPASS [USER] ZN

Depress the BYPASS key followed by your user code and zone number (1-6) to be bypassed.

Example:

BYPASS [USER] 2 Will bypass zone 2.

If the zone has already been bypassed, the sequence will unbypass the zone except if the system is armed and the unbypassed zone is still not ready. Unbypass means that the zone returns as an active burglary zone.

After the bypass (or unbypass) command has been accepted the unit will emit a continuous beep and zone or zones that have been bypassed will appear in a slow blinking mode in the zone status area on LED keypads.

LCD keypads will display the zone bypasses as a secondary display after the SYSTEM READY or SYSTEM NOT READY as shown below:

BYPASS ZN 01 FRONT DOOR

If multiple zones are bypassed then more than one display will appear.

8. UNBYPASS

The UNBYPASS function removes an existing bypass from a currently bypassed zone. After UNBYPASSING a zone, the bypass indication will be removed for that zone on either the LCD or LED keypad.

The procedure is similar to a bypass.

UNBYPASS PROCEDURE:

BYPASS [USER] ZN

See bypass description.

9. USER DEFINITION

Users can be entered or modified directly through the keypad. The STAR XL-4600DL security system can have up to six different users. User #1 is known as the master user and is the only user allowed to modify other users.

USER DEFINITION PROCEDURE:

CODE [USER] [US#] [USERID]

where;

[USER] Is the master user code (four digits).

[US#] User number (1-6)*

[USID] New user ID (0000 - 9999).

Note: (*) If ambush code capability has been enabled by your installing company then user #6 will be used as the system ambush code. If an arming only code (maid code) has been defined by your installer then user #5 can only arm the system.

Example,

To create user number 3, with a user access code of 4567 enter;

CODE [USER] 3 4567

>> Any error detected during the USER definition process will cause the keypad to beep rapidly four times. If an error is detected retry the **entire** command.

10. USER DELETION

Removal of users from the panel can be performed as follows;

USER DELETION PROCEDURE:

CODE [USER] [User #] *

Where:

[USER] Master user code

[User #] Represents the user number being deleted.(2-6). Note: User number 1 cannot be deleted.

* is the * key from the keypad.

11. KEYPAD EMERGENCY CONDITIONS

The XL4600DL can also initiate three separate emergency conditions directly through the keypad. These conditions must be activated by your installer and can be initiated through simultaneous depression of two keys as follows:

DESCRIPTION	KEYSTOKES
Panic	* #
Fire	7 9
Aux.	1 3

For example, to initiate a keypad panic signal press the * and # keys at the same time. Consult with your alarm installer to determine the operation of these conditions within your system.

12. DURESS

The STAR XL-4600DL system has capability to send an emergency signal to the Central Station if you are forced to enter the premise. This ambush capability can be programmed by your installer. If active, then user code #6 will be your ambush code.

13. ARM-ONLY (MAID) CODE

Another option selectable by your installer is an arm only code. If selected then user code #5 can only arm the system. This could be useful for a maid or maintenance worker to allow them to activate the security system as they leave.

14. QUICK ARMING

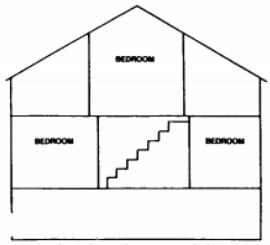
Another option selectable by your installer is a QUICK ARMING feature. If this feature has been selected then depression of the # key followed by 1 will ARM the system without need for entry of a user code. NOTE: System disarming will still require entry of a valid user code.

15. QUICK FORCED ARMING

Another option selectable by your installer is a QUICK FORCED ARMING feature. If this feature has been selected then depression of the # key followed by 2 will ARM the system without need for entry of a user code and will bypass any burglary zones that are not ready. NOTE: System disarming will still require entry of a valid user code.

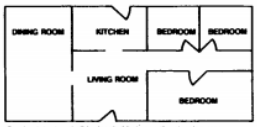
14. INSTALLATION LAYOUT

Early warning fire detection is best achieved by the installation of fire detection equipment the location as follows:



In homes with more than one sleeping area a smoke detector should be provided to protect each area.

Typical Smoke Detector Layout
(Proposed)



Smoke detector shall be located between the sleeping area and the rest of the house.

NOTES:
1. Designates smoke detectors
2. Refer to N.F.P.A. #74 Appendix B-1.1 thru B-10

Preparation of an evacuation plan is of prime importance in fire prevention. Establish a household emergency evacuation plan in the event of fire.

1- Evaluate possible escape routes from your home.
2- Select 2 escape routes from each room.
3- Rooms on the second floor should have a rope ladder. Be sure it will reach the ground.
4- Draw a rough sketch of your escape plan so everyone is familiar with it.
5- Practice your escape plan to assure that everyone knows what to do.
6- Establish a meeting place outside where your family is to report. Once you have evacuated the house do not return to a burning house.
7- Advise the local fire authority that you have installed a fire alarm system.
8. When the fire alarm signals, LEAVE IMMEDIATELY. Do not stop for belongings.
9. If a fire occurs ,test the door. If hot, use your alternate route. If the door is cool, brace your shoulder against it and open it cautiously. Shut the door to help prevent the fire and smoke from spreading. Crawl through smoke, holding your breath.
10. Contact the Fire Department from a neighbor's telephone.
11 Everyone including neighbors should be familiar with the Fire and Burglary signals. In this installation the Fire Alarm signal is _____. The Burglary Alarm signal is _____ .

15. SYSTEM TESTING

This control unit was manufactured under rigid quality standards and complies with all UL requirements for its intended use. Maintenance is best performed by your installing company with trained service personnel.

Installing Company: _____
Telephone Number: _____

It is recommended that you test your system once a week using the following procedure:

Note: If your XL4600DL system is monitored by a Central Station then contact them **prior** to performing this test.
1- Arm your security system.
2- Activate the system by opening a protected zone (example, window, or door).
3- Confirm that the alarm sounding device (bell or siren) activates. If your system is connected to a Central Station then the keypad will emit a ringback sound to confirm that the signal was received.
4- Disarm the system to silence the system and return to normal status.

BATTERY TEST
In order to test the backup battery the following procedure should be performed;
1- Remove the AC transformer from the AC outlet by removing the restraining screw which secures the transformer to the wall. (Note: the screw is not present in models sold in Canada).
2- Observe that the AC light goes off on the keypad.
3- Activate your alarm system using steps 1-4 listed above.
4- Replace the AC transformer to the AC outlet and secure using the retaining screw (Note: The retaining screw is not present in models sold in Canada).

The National Fire Protection Association publishes a standard for household fire warning equipment. N.F.P.A. #74. Further information can be obtained by contacting; NFPA Public Affairs Dept., Batterymarch Park, Quincy,MA 02269.

If you have any further questions about the operation of your system, call your installer.

OWNERS INFORMATION

NAME: _____

ADDRESS: _____

CITY, STATE, ZIP: _____

TELEPHONE NUMBER: _____

Date of Installation: _____

EMERGENCY NUMBERS:

CENTRAL STATION: _____

FIRE DEPARTMENT: _____

POLICE DEPARTMENT: _____

NEIGHBOR: _____

GAS/ELECTRIC DEPT: _____

DOCTOR: _____

HOSPITAL: _____

EMERGENCY _____

SERVICE INFORMATION:

ALARM INSTALLING COMPANY: _____