KP600F/L

LED/LCD KEYPADS

Owner's Manual

**Use with
AV6500 & SP850 Control panels**

IT IS IMPORTANT FOR YOUR SAFETY TO TEST YOUR SYSTEM AND IT'S COMPONENTS REGULARLY.

ARROWHEAD
A PRODUCT OF SENTROL, INC

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Introduction

Your installer has selected one of the finest alarm systems available for your installation and has custom programmed the system features to meet your specific requirements. Arrowhead Control Panels are designed for high reliability, excellent security and simplicity of operation. These features make it easy for you to get the most out of your system and prevent false alarms. The system is capable of reporting alarm and fault information via the telephone to a central monitoring station.

Some of the functions that your installer might have programmed are: fire, burglary, entry/exit delays, silent alarm, duress, power failure, communication failure, fire trouble and others. Consult with your installer and make sure you understand which ones are programmed and how they are used. The material in this publication is for information purposes only and is subject to change without notice. SENTROL, INC., assumes no responsibility for any error which may appear in this publication.

System Configuration

The items below should be marked by your installer at the time of installation defining the options that have been programmed.

Options Programmed

☐ **KEYPAIR ALARMS**   ☐ **KEYPAD DURESS**

☐ **KEYPAD FIRE RESET [1&3]** ☐ **EXIT TONE ENABLE**

☐ **CHIME ZONES _____**   ☐ **GROUP BYPASS ZONES _____**

☐ **OPENING AND CLOSING BY USER**

☐ **ARM WITH DELAY ZONES VIOLATED "Defeat Lockout"**

☐ **USER 7 CODE USED AS DURESS CODE**

☐ **REMOTE TELEPHONE ACCESS**

Keypad Description

The KP600L "LCD" and KP600F "LED" Keypads are digital arming/ disarming stations that provide full system control and display full system status from one or more convenient locations. A brief description of the functions of the lights on both styles of keypads are shown on the following pages. Additionally, built into each of the keypads is a miniature sounding device which, when active, indicates various conditions such as a Pre-Alarm Warning, Fault Condition or Chime Mode.

Your keypad has the added convenience of additional user codes. These secondary codes are designed to provide access to other users or service persons for whom you want to grant entry. Obviously, they can also be used in any other way that you desire. These codes can only be changed using the primary user code.

Arming, disarming, bypassing zones, etc., can be accomplished using any of the codes. In order to change codes from the keypad, use of the primary user code is required. User codes can be changed from any of the keypads and must be 4 digits in length.

IT IS IMPORTANT FOR YOUR SAFETY THAT YOU TEST YOUR SYSTEM REGULARLY.

KeyPair Alarms

The chart below is duplicated on page 12 but included here for your installer to complete, reflecting the programming of the panel.

Keypad Symbol   Assigned Function

● Circle   □Not Used   □_____

■ Square   □Not Used   □_____

◆ Diamond   □Not Used   □_____

▲ Triangle   □Not Used   □_____
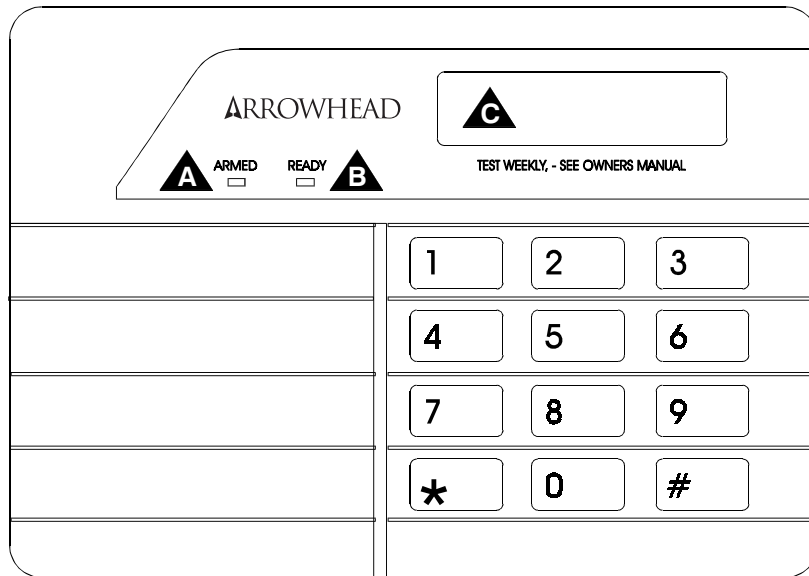
KP600L "LCD" Keypad

A - Red "**ARMED Light**" -
ON STEADY - Indicates system is armed or on
FLASHING - Indicates "Alarm Memory"

B - Green "**READY Light**" -

ON STEADY - Indicates system is ready to be armed,
FLASHING - Indicates system "Trouble" or Fault Condition exists

C - The "**LCD DISPLAY**" indicates system status in English, with READY, ARMED, BYPASSED, VIOLATED, TROUBLE and ALARM conditions all being displayed. System information such as AC OFF, LOW BATTERY, TROUBLE, and COMM FAIL, along with ZONE IDENTIFIERS will be displayed along with the other system status messages as needed to clearly show the current condition of the system.
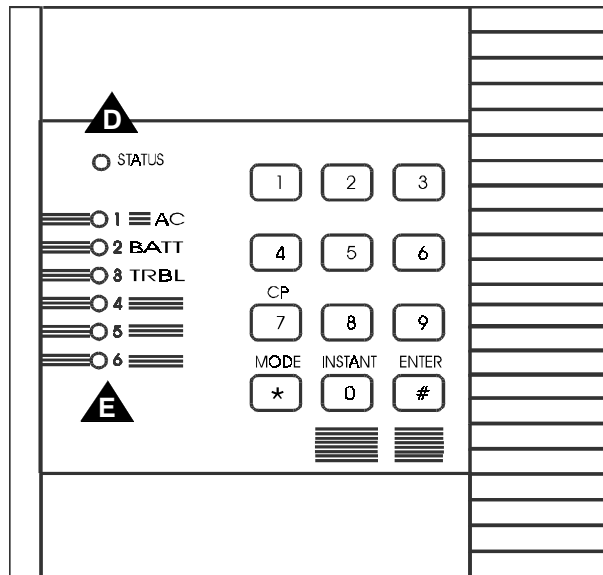
KP600F "LED" Keypad

D - Yellow "**STATUS Light**" -
ON STEADY - Indicates system "Armed"
OFF - Indicates system "Disarmed"
FLASHING - Indicates system "Trouble" or Fault Condition exists.

E - Red "**ZONE Lights**" - These lights indicate different conditions depending on the status of the system. When the system is "Disarmed", lights that are ON indicate violated zones. When the system is "Armed", lights that are ON indicate active zones, and lights that are flashing indicate zones that have caused an alarm.

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Disarming And Silencing Your System
(when ARMED light is on)

To Disarm your system, enter your User Code and the (#) key.

$$\left[\begin{array}{c} \text{YOUR} \\ \text{USER CODE} \end{array} \right] + \boxed{\#}$$

If you disarm your system on the LCD keypad, the armed light (RED) is off and the LCD display will show READY if all zones are secure, or VIOLATED if one or more zones are not secure.

(On the LED Keypad, the status light will turn "Off" when the system is disarmed. All zone lights will be "Off" when ready to arm. If a zone is violated, the corresponding light will be "On".)

RECOMMENDATION: If, when arriving home, the burglar alarm is sounding, contact police from a nearby location.
DO NOT ENTER YOUR RESIDENCE.

Arming Your System

If the READY light is lit on the LCD keypad (or all zone lights OFF on the LED), all zones may be armed by entering your User Code, using the key sequence below. When the READY light is not lit, the LCD display will show VIOLATED and scroll through the zone descriptions of the zones that are not secure. Zone lights on the LED keypad will be lit to show which zones are not secure.

$$\left[\begin{array}{c} \text{YOUR} \\ \text{USER CODE} \end{array} \right] + \boxed{\#}$$

Your system is now armed. The LCD ARMED light is on and the display shows ARMED. The LED STATUS and all secured zone lights are lit.

NOTE: If your installer has enabled the "Defeat Lockout" feature, an exit door or motion detector may be violated when arming. This zone will be part of the system at the end of the Exit Delay Time. If the zone is left open after the exit time an alarm condition will result.

Zone Bypass

When the READY light is unlit on the LCD keypad (display will show VIOLATED and the identifier of that zone will scroll through the display) or zone light(s) are lit on the LED keypad. This zone is not secure, such as zone 3 "FRONT BEDROOM" window, entering the User Code will not arm the system. If a zone is intentionally left open and the rest of the zones are to be armed, the open zone must be BYPASSED. To bypass a zone, enter your user code, then enter the number of the zone to be bypassed (in this case "3"), then the (#) key.

$$\left[\begin{array}{c} \text{YOUR} \\ \text{USER CODE} \end{array} \right] + \boxed{3} + \boxed{\#}$$

All the other burglary zones except zone 3 will ARM and the LCD display will scroll through ARMED, BYPASSED and ZONE 3. The LED keypad's Status light and all active zone lights will be lit. Zone 3 is now deactivated. If the window is closed and opened again, an alarm condition will not result, as this burglary zone will be bypassed until the system is disarmed. When the system is disarmed the bypass is removed. Additional zones may be bypassed in the same manner, by adding their zone numbers before pressing the (#) key.

If your installer has programmed your system to allow bypass-ing of 24hr zones, the bypass must be removed by arming and disarming the system.
NOTE: For safety concerns, Fire zones can not be bypassed

Bypassing a Group of Zones

The system may have been configured to allow bypassing all interior zones easily with a simple command. The sequence for Group Bypass is as follows:

$$\left[\begin{array}{c} \text{YOUR} \\ \text{USER CODE} \end{array} \right] + \boxed{*} + \boxed{1} + \boxed{\#}$$

Group Bypassing is normally used to turn the alarm system "On" while remaining in the protected area.

Instant/Delay Mode

Your system will normally arm in the Delay Mode when leaving the premise. This will delay arming, allowing time to exit. When entering, the alarm will be delayed allowing time to disarm the system. The audible warning device will sound during the entrance delay reminding you to disarm the system. The Instant Mode is primarily used in residences. If this is desired, the key sequence is as follows:

$$\left[\begin{array}{c} \text{YOUR} \\ \text{USER CODE} \end{array} \right] + \boxed{*} + \boxed{0} + \boxed{\#}$$

If a zone(s) are to be bypassed in conjunction with entering the Instant mode or the group bypassing is desired simply enter the zone number(s) or the [* 1] prior to the [*] key in the sequence above.

Arming/Disarming Reports By User

The Arming and Disarming by user code identifies the user who disarms and arms the system. This is accomplished by assigning an individual user code to each of the eight possible users. The primary user code is always reported as user one. Seven additional secondary user codes report as user 1-7. Select secondary codes as shown in "Changing Code(s) From the Keypad" Section.

Testing the Communicator

Your installer should instruct you on how to test , and how often to test the communicator portion of your system. Various central monitoring stations have different procedures for testing the communicator. Your installer is familiar with this procedure.

Testing Your System

The system should be tested weekly. The local system can be tested to verify that the system components are functioning by using the following sequence.

$$\left[\begin{array}{c} \text{YOUR} \\ \text{USER CODE} \end{array}\right] + \boxed{*} + \boxed{4} + \boxed{\#}$$

Starts the Test mode

$$\left[\begin{array}{c} \text{YOUR} \\ \text{USER CODE} \end{array}\right] + \boxed{\#}$$

Arms the system and tests the alarm output. This sequence gives a short bell blast and activates Alarm Memory.

$$\left[\begin{array}{c} \text{YOUR} \\ \text{USER CODE} \end{array}\right] + \boxed{*} + \boxed{4} + \boxed{\#}$$

This final sequence must be entered to return to Normal

During the test each door contact, motion detector, etc. should be violated which will cause a short blast from the siren output. The Entry/Exit delays are shortened to 4 seconds during the test.

The test is terminated by reentering the same sequence.

Smoke Detector Reset

Professional quality smoke detectors are designed to latch into alarm condition and must be manually reset. Your control panel can be programmed to reset this device following an alarm condition by **simultaneously pressing** the "1" KEY + "3" KEY on the keypad.

$$\boxed{1} \quad \boxed{3}$$

PRESS SIMULTANEOUSLY
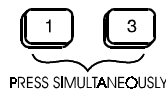
Setting Chime Mode

Your installer may have designated certain burglary zones to briefly activate the mini-sounder contained in each keypad. These zones typically annunciate that a door has been opened or closed while the panel is in the disarmed mode.

To turn the **Chime feature** "On" use the key sequence shown below.

$$\left[\begin{array}{c} \text{YOUR} \\ \text{USER CODE} \end{array} \right] + \fbox{$*$} + \fbox{6} + \fbox{\#}$$

Enter the sequence again to turn the feature "Off".

Fault Condition

A Fault Condition could, if unheeded, potentially render your system inactive. If such a fault should occur it will be indicated by a flashing green "READY" light, a TROUBLE message on the LCD display, and an audible warning tone at the keypad. The LED keypad indicates this Fault condition with the "STATUS" LED flashing with the audible tone.

To identify the nature of the Fault Condition, press and HOLD the ENTER key. This will also silence the audible warning. Fault conditions will show on the LED or LCD displays. The LED display will indicate the trouble condition by flashing the appropriate zone LED (see following chart). The LCD display will now indicate the nature of the problem and it will scroll through the problems if there are more than one. Discuss with your installer what action to take if a problem should occur. If a trouble condition occurs on a fire zone, call your installer for service since an important part of your system is out of order.

The Table on the next page shows the LCD keypad messages and the LED Zone numbers 1-4 for each of the Fault Conditions:

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LED KYPD	LCD KYPD	PROBLEM
Status LED	Green READY	
Flashing	LED Flashing	Trouble Condition Exists
Zone #1	AC OFF:	Indicates the AC power to your alarm system has been disrupted.
Zone #2	LOW BATTERY:	Indicates a low battery condition
Zone #3	TROUBLE:	Indicates zone trouble condition
Zone #4	COMM FAIL:	Indicates a failure to communicate with Central Station.

The <u>Zone in Trouble</u> will show constantly **IF** the Trouble condition is a Fire or Burglary trouble. The keypad will display the zone in Trouble. The LCD will scroll each of the zone(s) and the LED keypad will light the appropriate zone LED.

IT IS IMPORTANT FOR YOUR SAFETY THAT YOU HAVE YOUR INSTALLER CORRECT ANY FAULTS AS SOON AS POSSIBLE.

Duress (Ambush)

Your installer may have programmed a Duress code to use during a holdup when you're ordered to disarm your system. When used, a silent alarm is transmitted to the central monitoring station. Enter your Duress Code, then press the [#]. The system will disarm and a silent alarm will be transmitted. This code replaces user number 7 and can be changed as shown on page 13.

NOTE: This function will only operate during a disarm command.

Normal Disarm

$$\left[\begin{matrix} \text{YOUR} \\ \text{USER CODE} \end{matrix} \right] + \boxed{\#}$$

Duress Disarm

$$\left[\begin{matrix} \text{YOUR} \\ \text{DURESS CODE} \end{matrix} \right] + \boxed{\#}$$

Emergency Alarm Key Pairs

There are four special emergency codes that can be initiated at the keypad. **THESE EMERGENCY ALARM KEY PAIRS MUST BE PRESSED SIMULTANEOUSLY,** (a feature designed to minimize false alarms).

The special LCD keypad key pair combinations are marked with a circle, square, diamond, or triangle.
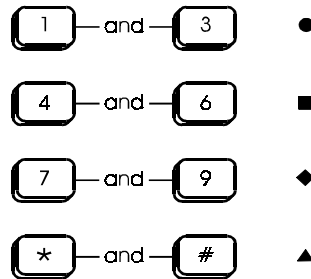
Consult your installer/dealer as to which one(s) of these are used, if any, and which combination initiates which alarm. The special symbols above and between the specific rows are to help you identify which keys to press in case of an emergency situation.

Keypad Symbol		Assigned Function	
● Circle	☐Not Used	☐_____	
■ Square	☐Not Used	☐_____	
◆ Diamond	☐Not Used	☐_____	
▲ Triangle	☐Not Used	☐_____	

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Changing User Code(s) From The Keypad
Changing User Codes

User codes are changed using the primary user code (User #1) and the sequence shown below.

The sequence uses the **[Primary Code], [*], [7], [*][User #], The four digits** for the new code and then **[#]**. Vadid "**User #**'s" are digits 1-8.

This example shows user #2 being changed or added to the system as "9886".

[YOUR PRIMARY CODE] **+** (*) **+** (7) **+** (*) **+** (2) **+** (9) **+** (8) **+** (8) **+** (6) **+** (#)

User code number 2 is now programmed as "9886" into your system. Additional users may be changed or added to the system using the same sequence with the desired user number and four digit code.

Deleting Secondary User Codes

Sometimes it may be necessary to delete a secondary user code. Use the same key sequence as above **omitting** the four digits for the new code:

Example: User 2 code deleted.

[YOUR PRIMARY CODE] **+** (*) **+** (7) **+** (*) **+** (2) **+** (#)

Remote Telephone Access

If your installer has included this feature, you have the ability to check on the status of your system and change the status when away from home.

The SP850 control panel can be interrogated and status changed from a remote touchtone telephone. The system will respond with a series of beep tones to indicate whether the system is "Armed", "Ready to Arm", "Not Ready", "In Alarm" or "System Trouble" condition.

In the case of an answering/fax machine on site, or phone company provided answering service the following is important to remember:

The "Ring Count" must be counted at the panel until it equals the programmed value in location 144. Subsequent calls to the site followed by a hangup and then redial before the line is taken by the answering/fax equipment will be required before the panel will answer.

To Use:

Call the premises telephone number.

Allow the phone to ring the proper number of times. Your installer will set this at the time of installation.

The system will answer, wait about 5 seconds for a long tone.

Now enter your user code using the **[#]** sign for each digit. Pause slightly between digits.

As an example, if your code was [2346]:

Tap **[##]** *pause* **[###]** *pause* **[####]** *pause* **[######]**. If you enter the correct code you will hear a series of tones indicating your system's status.

Number of tones = System Status

1 = **Armed**   2 = **Ready to Arm**   3 = **Not Ready**   4 = **Alarm**

5 = **Trouble**   **Note:** *Combinations of status conditions are possible.*

To alter the status, simply press **[###]**. A new series of tones will tell you the new status. If the status is changed from **Not Ready**, the system will be Armed with a faulted zone in the **Bypassed** condition.

To hang up when the system is in the desired state press [**#####**].

Evacuation Plan

The National Fire Protection Agency recommends the following guide-lines to be prepared for an actual fire.
1. Draw a floor plan of the building marking all doors and windows.
2. Evaluate all possible escape routes from building, trying each route.
3. Select two (2) escape routes from each room.
4. Second floor rooms should have a rope ladder that reaches the ground.
5. Draw a sketch of the escape route and familiarize everyone in the home with it.
6. Select a meeting place outside where everyone is to report.
7. Practice the escape plan with everyone in household.
8. Advise the local fire department that a fire alarm system is installed.
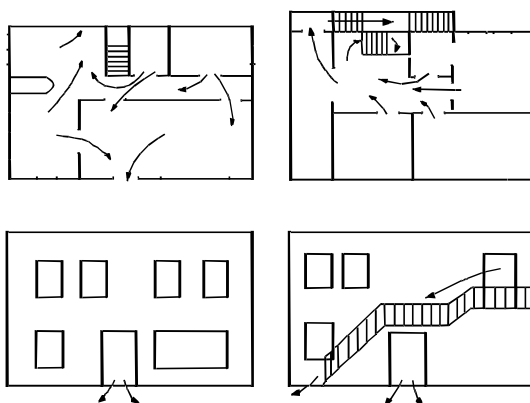
FOR MORE INFORMATION WRITE:
NFPA
1 Battery March Park
Quincy, MA 02269

APPROVAL OF FIRE AUTHORITY DOES NOT INCLUDE BURGLAR INSTALLATION OR EQUIPMENT.

FOR TECHNICAL ASSISTANCE PLEASE CONTACT YOUR INSTALLER/DEALER

WARRANTY AND LIABILITY LIMITATIONS AND DISCLAIMER

LIMITED WARRANTY

Sentrol, Inc. warrants to the purchaser that under normal use and service, its products will be free from defects in material and workmanship as follows: Control Panels and accessories - 24 months from date of manufacture; Sensors and accessories - 60 months from date of manufacture. Sentrol, Inc.'s warranty obligation is limited to repairing or replacing (at Sentrol, Inc.'s sole option) equipment which has been, during the warranty period and not more than thirty 30 days after discovery, reported to Sentrol, Inc. as defective in material or workmanship and is so found to be by Sentrol, Inc. upon inspection. For the purposes of this Warranty, Purchaser refers to wholesale purchaser, installer and retail purchaser. Retail purchaser must, however, in the case of defect, contact the person or entity who installed and maintains the product who in turn should contact Sentrol, Inc. in accordance with the terms of this Limited Warranty.

Examination and repair or replacement of such equipment will be performed at Sentrol, Inc.'s. facilities located in Hickory, North Carolina with no charge to purchaser for service time expended, except as otherwise stated in this Warranty Limitations and Disclaimer. Equipment to be examined, replaced or repaired at Sentrol, Inc.'s facilities must be returned to Sentrol, Inc. by purchaser within the warranty period, insurance and transportation charges prepaid. Prior to the return of the equipment, wholesale purchasers or installers shall obtain a return authorization number from Sentrol, Inc.'s Customer Service Department. Retail purchasers are to contact the person or entity who installed and maintains the product. Under no circumstance Sentrol, Inc. will be responsible for expenses or labor incurred in removing and reinstalling its products from the retail purchaser's location. If examined equipment is found not to be defective or is not for some other reason within the warranty coverage, Sentrol, Inc.'s service time expended will be charged to purchaser.

Purchaser shall be responsible for all maintenance, service, replacing expendable parts, making minor adjustments and performing operating checks, all in accordance with procedures outlined in Sentrol Inc.'s operation manual. This Warranty shall not apply to any product failure that results from purchaser's failure to properly maintain, service, adjust, inspect and test the product in accordance with Sentrol, Inc.'s operation manual.

WARRANTY LIMITATION AND EXCLUSION

The repair or replacement of any product under this Warranty Limitation and Disclaimer shall in no event extend the term of the warranty beyond the original term set forth herein.

Sentrol, Inc. will have no further warranty obligation under this agreement if the equipment is subject to tampering, abuse, misuse, electronic disruption, negligence, accident, flood, fire, acts of God, improper installation, application or programming, improper maintenance or repair, alteration, repair or installation by an unauthorized installer or repair facility, improper storage, transportation or handling, or if purchaser fails to perform any of the procedures set forth in the manual, and/or instruction sheet; specifically, the equipment must have been installed in accordance with the instructions and operated in accordance with the instructions. In particular, the unit must be programmed for regular test and the tests must be conducted on a regular basis, but no less often than once per week.

This Warranty does not apply to components or parts manufactured by any person or entity other than Sentrol, Inc.
Any repair or replacement of product within this Warranty must be performed by Sentrol, Inc.