

# **USER'S MANUAL**



## **DIGI-KEY-IV**

**With Avenger  
6000/8000 Series  
Control Panels**



**ACRON**

CORPORATION

490 OBERLIN AVE. SO., LAKEWOOD, N.J. 08701

## OPERATING INSTRUCTIONS

Paragraphs that are indicated by a ☐ refer to options that may or may not apply to your system. Those ☐ which your installer has marked with an "x" should be read as they contain information which pertains to your system.

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## GENERAL DESCRIPTION

The Digi-Key IV is a digital arming station that provides full system control and displays full system status from one or more convenient locations. A brief description of the functions of each light is shown in Figure 1. Additionally, built into each DK-IV is a miniature sounding device which, when active, indicates various conditions such as a Pre-Alarm Warning, Fault Condition, Test Modes of operation, or Door Annunciation.

Your Digi-Key has the added convenience of additional access codes. These second-

ary codes are designed to provide access to a maid or other service persons for whom you want to grant entry. Obviously, they can also be used in any other way that you desire.

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 access code is required. Access codes can be changed from keypad and may have from 3 to 6 digits.

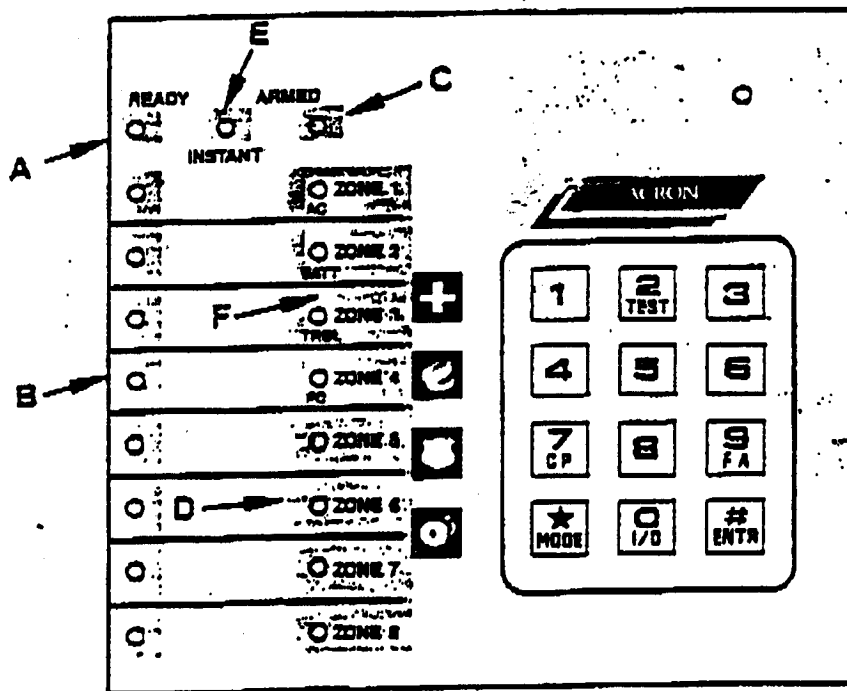


FIGURE 1

- Green "READY Light" — when on indicates that all protected areas are secure and system is ready to be armed. A blinking ready light indicates a Fault Condition.
- Red "Zone Lights" — when on indicate that a particular protected area is not secure. A blinking zone light indicates an alarm has occurred and identifies the specific zone that was violated.

- C —Red "General ARMED Light" — when on indicates system is armed or on. A blinking armed light indicates that an alarm has occurred.
- D —Red "Individual Armed Lights" — when on indicate which specific areas of protection are armed.
- E —Amber "INSTANT Light" — when on indicates that delay zones are in Instant Mode.
- F —Red lights indicate nature of fault in "Fault Analysis" mode when on as follows: AC - No AC power; Batt - Low Battery condition; TRBL - a trouble condition on zone(s) as indicated by red zone lights; FC - Failure to Communicate.

**NOTE:** The CP on key "7" stands for change program, the FA on key "9" stands for fault analysis. The I/D on key "0" stands for instant/delay.

**NOTE:** 24 hour zones indicate individual armed status.

## ARMING/DISARMING MODE CHANGING AND ZONE BYPASS IN CONVENTIONAL MODE

### DISARMING SYSTEM (when armed light is on)

To Disarm your system (assume Access Code 143), enter your Access Code, key sequence as follows:

1 4 3 0

ACCESS  
CODE

Your system is now disarmed. All armed lights are off.

### ARMING SYSTEM WITH READY LIGHT ON

If READY light is on, all zones may be armed by entering your Access Code, key sequence as follows:

1 4 3 0

ACCESS  
CODE

Your system is now armed. All armed lights are on.

### ZONE BYPASS READY LIGHT ON OR OFF

If one of the left hand zone lights is on, a door or window is open or a zone is violated. Let us assume that the zone 3 window is open. The zone 3 left hand light will be on.

system because the zone 3 window is open. Suppose that the window is intentionally left open to allow some air circulation and the rest of the zones are to be armed. To bypass a zone, enter your access code, then enter the number of the zone to be bypassed (in this case "3"), enter key sequence as follows:

1 4 3 3 0

ACCESS CODE ZONE BYPASS

All the other burglary zones except zone 3 will light. Zone 3 is now deactivated. If the window is closed and opened again, an alarm condition will not result as this zone will be bypassed until the system is disarmed and rearmed.

### ABBREVIATED ARMING

Allows system to be armed by using only the first one, two, or three digits of the access code. Once your installer has selected the number of digits for abbreviated arming, access code(s) may be changed without effecting abbreviated arming number of digits. Do not use full access code for arming or zone bypass may occur.

## MODES

### INSTANT/DELAY MODE

The system should be in the Delay Mode

ming, allowing time to exit. When entering, the alarm will be delayed allowing time to disarm the system. The audible warning device will sound reminding you to disarm the system.

The Instant Mode is primarily used in residences. It is used during sleeping hours when a delay is not desirable.

If the Instant Mode is desired enter key sequence as follows:



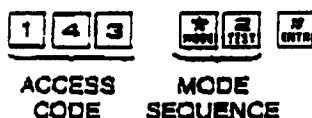
The amber light indicates when the Avenger system is in the Instant Mode (the INSTANT light is on).

Example: The INSTANT light is on indicating the Instant Mode. If the Delay Mode is desired, use the same sequence as above. The mode will now change from Instant Mode to the Delay Mode (The INSTANT light is off).

### TEST MODE

You can test the Avenger system at any time by entering the "TEST" mode. In the "TEST" mode, you may test your doors, windows, motion detectors, etc., without sending an alarm to the monitoring company. The audible alarm will sound briefly to indicate proper operation.

Accessing the Test Mode is accomplished by the following key sequence:



The audible warning will sound until the Test Mode is turned off by disarming the system.

### FAULT ANALYSIS MODE

The Fault Analysis mode is used to diagnosis a problem which could, if unheeded potentially render your system inactive. If such a fault should occur it will be indicated by a flashing green "READY" light and simultaneous audible warning at the keypad.

Faults that can be identified are as follows:

AC: Indicates the A.C. power to your alarm system has been disrupted.

BATT: Indicates a low battery condition.

TRBL: Indicates a trouble condition associated with a specific zone. Red "Zone Lights" in the fault analysis mode when on indicate the troubled zone.

FC: Indicates failure to communicate to the central monitoring station.

To identify the nature of the problem and silence the audible warning, enter the following key sequence:



The lights on the keypad will now indicate the nature of the problem for 5 seconds, then return to the normal display.

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 immediately.

### SPECIAL MODES

- ☐ Smoke Detector Reset from keypad (AV-8000 only)
- ☐ Duress from keypad
- ☐ Silent alarm from keypad
- ☐ Audible alarm from keypad
- ☐ Fire alarm from keypad
- ☐ Medical alarm from keypad

Consult your installer to determine if your system is configured for any of these options.



### SMOKE DETECTOR RESET




Depending upon the system, resetting smoke detector(s) is accomplished differently. Your installer will check the appropriate method described below.

- ☐ AV-8000 — Smoke Detector(s) may be reset by simultaneously pressing the 1 and 3 keys on the DK-IV keypad









- ☐ AV-8000 — Clearing the alarm memory after a fire alarm has occurred will automatically reset the smoke detector(s).
- ☐ AV-6000 — Your installer has provided a switch to provide the smoke detector(s) reset function.

### DURESS (AMBUSH)

Duress is used during a hold-up when you're ordered to disarm your system. When used, a silent alarm is transmitted to the central monitoring station. Press the  key after your Access Code, then press the  (ENTER) key. The system will disarm and a silent alarm will be transmitted.


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). Pressing the  key first and then pressing the  key while the  key is still held down will NOT send an emergency signal. The special key pair combinations are:

### FUNCTIONS

	and		_____ (Smoke Reset) (AV-8000 only)
	and		_____
	and		_____
	and		_____

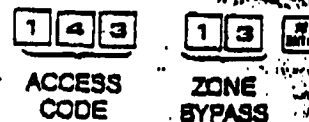
Consult your installer/dealer as to which one(s) of these are used, if any, and which combination initiates which alarm. The special symbols alongside of specific rows are to help you identify which keys to press in case of an emergency situation.


### ☐ MULTI-PREMISE MODE

Your installer/dealer has assigned specific zone(s) for you. Other users are sharing the same alarm system. There is very little interaction between users, and arming and bypassing zones can be done without interfering with other users. Bypassing zones is explained in the section on conventional mode. Entering the Access Code and then pressing  (ENTER) will arm all of your zones. (To disarm your section, you must bypass all zones assigned to you.)

Example: You are assigned zones 1, 2 and 3. Your Access Code is 143, and you wish to

disarm zones 1 and 3. Use key sequence as follows:





If all zones were to be disarmed, then 1, 2 and 3 would have to be pressed after the Access Code is entered and before the  (ENTER) key is depressed.

In case of an alarm condition, enter your Access Code. This will shut the alarm off.

### FAULT ANALYSIS MODE

The Fault Analysis Mode is used in Multi-premise as it would be in the single user mode to indicate a general system fault. (see Fault Analysis Mode page 3 of this manual). When a fault occurs it will be indicated by an audible warning at each user keypad.

To silence the audible warning press key pairs  and  simultaneously. Any user may use the Fault Analysis Mode to silence the audible warning. Once initiated the tone is silenced in all user keypads.

The fault may or may not be displayed depending on system programming.

Example: An A.C. power failure occurs. A.C. fault will only be displayed at the user keypad who was assigned zone 1.

### ☐ OPENING AND CLOSING BY USER

The Opening and Closing by user code identifies the user who disarms (opening) and arms (closing) the system. This is accomplished by assigning an individual access code to each (up to 8) users. The primary access code is always reported as user one. Seven additional secondary access codes may be selected.

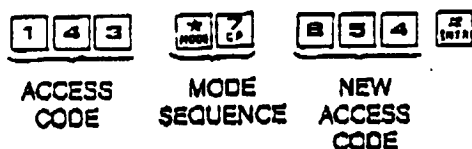
Select secondary codes as shown in "Entering or Changing Secondary Access Code" section.

## CHANGING ACCESS CODE(S) FROM THE KEYPAD

### CHANGING PRIMARY ACCESS CODE

Changing the access code from individual keypads can be done if the old access code is known. In the following example the old

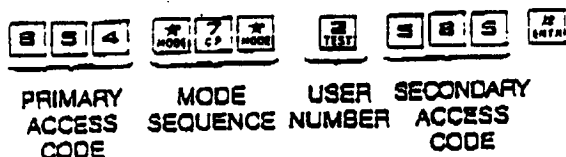
code was 143 and the new code is to be 854. To change Primary Access Code use following key sequence:



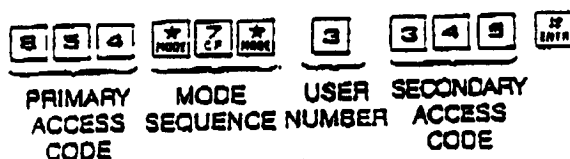
The new code is now programmed into your system. This code change effects individual keypads only. Other keypads may be programmed with the same or different code.

### ENTERING OR CHANGING SECONDARY ACCESS CODES

Enter primary code, MODE, CP, MODE, N, new secondary code, ENTER. N=User number 2-8. Up to seven 3-to-6 digit secondary codes can be entered. For example, if the primary code is 854 and the desired secondary code for user 2 is 585, enter the following key sequence:



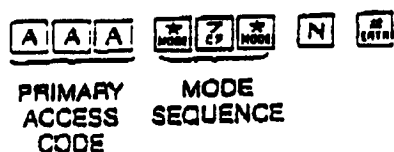
User number 2 is now assigned access code 585. To assign user number 3 a secondary code of 345, enter the following key sequence:



User 3 is now assigned access code 345.

### DELETING SECONDARY ACCESS CODE

Secondary access codes may be deleted by entering the following key sequence:



N =USER NUMBER (2-8)

This sequence must be repeated for each

user code.

**NOTE:** One of the codes can not be exactly equal to the leading digits of the other. For example if the primary code is 123, the secondary code may not be 12345. This sequence would bypass 4 and 5.

### PROGRAMMING NEW PRIMARY ACCESS CODE WHEN OLD PRIMARY CODE IS NOT KNOWN

If the primary access code is not known, the following steps should be followed at each Digi-Key location. You may select any access code you desire from THREE to SIX digits in length made up of any combination of the numbers 0 through 9. Your access code may vary from one Digi-Key location to another or remain the same throughout. Programming the code at one Digi-Key will not effect others.

Program the new primary access code as follows:

- 1) Move Link J-12 from "NORMAL" to "ACCESS CODE PROGRAM" position for 5 seconds then return to "NORMAL" position. See Figure 2.
- 2) Enter new primary access code. Example: The Access Code is to be 8851 at one Digi-Key station (A), and 843 at another Digi-Key station (B). At Digi-Key station A, use following key sequence:



The 8851 Access Code is now entered for Digi-Key station A. Go to Digi-Key station B, use following key sequence:



The 843 Access Code is now programmed at station B.

If a wrong digit is accidentally programmed, repeat steps 1 and 2.

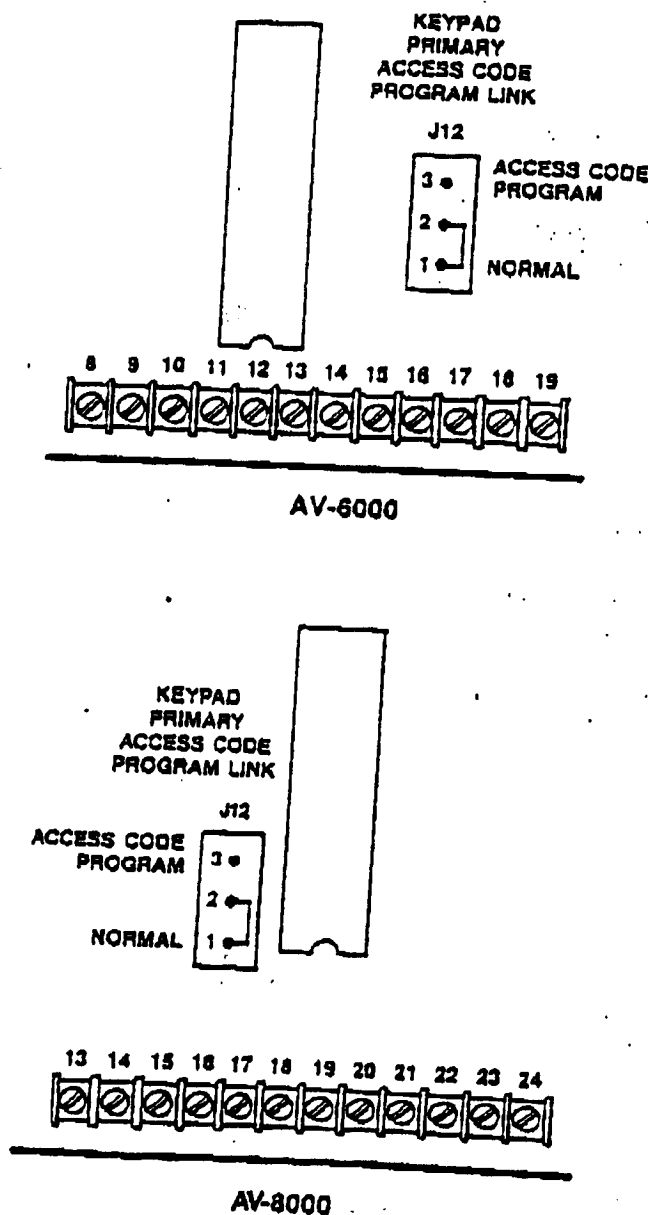
If more Digi-Key stations are installed, the same procedure is to be used. If you desire

to change a number at a later time, repeat the same procedure. Remember — once the J12\* program link is moved at the panel, all key stations must have their Access Codes programmed.

The J12\* Link can not be used to re-program the secondary access codes. They must be programmed from the keypad.

**NOTE:** Access Code errors in the arming or disarming modes can be corrected by re-entering the correct Access Code.

FIGURE 2



# DK-IV INSTALLERS KEYPAD REFERENCE GUIDE

FUNCTION	MODE SEQUENCE	KEY SEQUENCE
ABBREVIATED ARMING, SET	A A A * 1 * MODE	N D # ENTR
ABBREVIATED ARMING, CLEAR	A A A * 1 * MODE	N # ENTR
TABLE ZONE LEDS	A A A * 8 * 1	Z Z Z # ENTR
TABLE ZONE BYPASS	A A A * 8 * 3 TEST	Z Z Z # ENTR
TABLE ZONE ANNUNCIATOR/CHIME	A A A * 8 * 3	Z Z Z # ENTR
ADIBLE FEEDBACK SELECT/DESELECT	A A A * 8 * 4 # ENTR	N/A
UNDER SELECT/DESELECT	A A A * 8 * 5 # ENTR	N/A
ULTI/SINGLE PREMISE LECT/DESELECT	A A A * 8 * 7 # ENTR	N/A
TER PROGRAM MODE KEYPAD	A A A * 8 * 9 FA # ENTR	N/A
TER PROGRAM MODE PANEL †	# ENTR 1 2 3 4 5 # ENTR	N/A
IT PROGRAM MODE PANEL †	SIMULTANEOUSLY PRESS 4 & 6	N/A
T PROGRAM MODE KEYPAD	SIMULTANEOUSLY PRESS * MODE & # ENTR	N/A
DOUCT CODE	# ENTR * MODE 9 FA 0 I/O 9 FA 1 # ENTR	N/A
TRENT AV-8000/8000 ***	# ENTR * MODE 9 FA 0 I/O 9 FA 3 # ENTR	N/A
IER AV-8000/8000 †††	# ENTR * MODE 9 FA 0 I/O 9 FA 2 # ENTR	N/A
DOUCT CODE	# ENTR * MODE 9 FA 0 I/O 9 FA 0 # ENTR	N/A
ERS	# ENTR * MODE 9 FA 0 I/O 9 FA 2 # ENTR	N/A
ARY ACCESS CODE CHANGE *	# ENTR A A A * 7 CP	NEW A A A # ENTR
ONDARY ACCESS CODE SET **	A A A * 7 * MODE	N S S S # ENTR
ONDARY ACCESS CODE CLEAR	A A A * 7 * MODE	N # ENTR

## See DK-IV Installation Instructions

- \* = Factory Programmed for 1, 2, 3
- \*\* = Cleared at Factory
- \*\*\* = Factory Programmed
- † = For AV-8000 / 8000 Only
- AAA = Primary Access Code (From 3 to 8 digits)
- ††† = For use with 3113 Microprocessor see page 1.
- SSS = Secondary Access Code (From 3 to 8 digits)
- ZZZ = Zone(s) enabled for bypass, annunciator/chime or individual armed LEDs.
- N = User Number.
- D = Number of digits 1-3 selected for abbreviated arming.

## SPECIFICATIONS:

Voltage: 8-16 Vdc  
 Current Consumption Typically 80mA  
 Temperature Operation Range: 35°F to 135°F  
 Environment: For Indoor Use Only  
 Dimensions: 5" x 4.85" x .575"  
 Shipping weight: 7 oz.

FOR TECHNICAL ASSISTANCE CALL:  
 1-800-631-2144

## Limited Warranty

Seller warrants to the Purchaser that its products will be free from defects in material and workmanship for 24 months from date of manufacture. Seller's obligation under this Limited Warranty shall be limited, at Seller's option, to repairing or replacing the product, which upon examination is found to be defective in material or workmanship. The repair or replacement of any product under this Limited Warranty shall not extend the term of the warranty beyond the original term as set forth above.

All repairs qualifying under this Limited Warranty must be performed by Seller. In the event that any product is found to be defective during the warranty period, the Purchaser or Installer or retail purchaser shall notify Seller of any claimed defect within 30 days after such defect is discovered. The Purchaser, Installer, or retail purchaser shall obtain a return authorization number from Seller's customer service department and return the product, transportation prepaid, to Seller's Lakewood, New Jersey location. Under no circumstances will Seller be responsible for expenses or labor incurred in removing and reinstalling its products from the retail Purchaser's location.

This Limited Warranty shall not cover defective conditions caused, in whole or in part, in Seller's opinion, by negligence in use; misuse; abuse; flood, fire or acts of God; improper installation or application; improper maintenance or repair; alteration or repair by an unauthorized repair facility; or improper storage, transportation or handling.

This Limited Warranty is the sole and entire warranty pertaining to Seller's products and is in lieu of and excludes all other warranties of any nature whatsoever, whether express, implied or arising by operation of law, trade usage or course of dealing, including, but not limited to, warranties of merchantability, warranties of fitness for a particular purpose and any warranties relating to materials or components manufactured by any party other than Seller. Seller will not be liable for any direct, indirect, consequential, incidental or any damages other than repair or replacement of products that are found by Seller to be defective during the warranty period. In no event shall Seller's liability for any claim for any product, whether arising out of breach of contract, warranty or tort (including negligence, failure to warn, or strict liability) or otherwise, except the per unit product price for each of the products that gives rise to the claim.

The Purchaser expressly agrees that the remedies granted to it hereunder are its sole and exclusive remedies with respect to any claim other than arising under this contract and limited warranty.



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