

INITIATE A DYNAMIC BATTERY TEST

The system tests the back-up battery once every 24 hours. The owner can initiate a dynamic battery test at any time with the following codes while the system is in disarmed condition.

USER CODE * 4 #

- Manually initiated testing does not affect the periodic battery test.
- The test takes 5 seconds to 2 minutes depending on the condition of the battery.
- Manually battery test is usually required after installation of a new back-up battery.

INITIATE A DYNAMIC TEST OF THE OUTPUT RELAYS

It is necessary to test the output relays periodically to ensure that they work normally. The owner can key-in the following command to initiate the test while the system is in disarmed condition.

USER CODE * 5 #

- Both timing and latch output relays operate for 5 seconds to energize the siren and strobe light.
- If the siren or the strobe does not work normally, check the wiring and the device immediately.
- Suggest to make test monthly.

OPEN THE CABINET FOR SERVICE

The alarm control panel is protected by a built-in tamper switch. Opening of the cabinet will trigger the tamper switch to give alarm.

The whole system including the tamper switch can be disarmed by setting it into programming mode with the master code.

MASTER CODE * *

- After the system is in programming mode, the tamper switch is disabled. The cabinet can be opened for service without triggering an alarm.
- Don't forget to press * * to set system back to normal operation after service.

8-ZONE ALARM CONTROL PANEL FOR HOME AND OFFICE PROTECTIONS

HA-263K HA-263D

OWNER'S MANUAL Installation And Operation

Version 01/08



AEI[®]
SINCE 1979



Thank you for choosing the HA-263 Alarm Control Panel to protect you and your property. Your system is one of the most powerful and advanced alarm systems on the market today, designed to provide you with years of reliable service.

This owner's manual covers the information on both installation and operation. It describes the functions of the connection terminals, all the aspects of the feature programming and the operation procedures in detail.

To get most from the system, we suggest that you take time to read through the manual to get acquainted with all its features and the operating procedures.

CLEAR THE ALARM MEMORY

In the condition of there was alarm occurred. The zone LED of the alarmed zones flash as alarm memory after the system is disarmed with [USER CODE] [#]. It is necessary to clear the alarm memory in the system or in the individual partitions before the system can be re-armed in the normal way.

To clear the alarm memory, key-in [USER CODE], press [✳], then [3] and validate with [#] key.

USER CODE ✳ 3 #

- The zone LEDs with alarm memory are OFF showing that the alarm memory has been cleared.
- The system or the partition keeps in disarmed mode.
- The system or the partition is ready for re-arm.

PANIC BUTTON

At anytime, hold down any TWO key-buttons on the keypad simultaneously for more than three seconds will trigger an alarm. This software alarm zone is considered as a 24 hour emergency alarm and is indicated on zone 8.



ANY TWO KEY BUTTONS

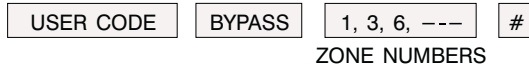
CHECK THE FAULTY ZONE(S)

While the system or the individual partition is in disarmed condition. The owner can key-in the following command to check out the faulty zones.

USER CODE ✳ 1 #

- The zone LED of the faulty zones are ON.
- Each display period is 30 seconds. At the end of the period, a beep will be generated, if any key button is pressed within 5 seconds after the beep, a new period of 30 seconds begins.
- The display period may be prolonged as many times as necessary.
- The system resumes to normal operation 5 seconds after the beep if it is not prolonged.
- The system does not allow to arm during faulty zone checking and the keypad is temporarily disabled.

- 5) User Code 3 can make bypass to all protection zones in all partitions including the zones in the common partition.
- 6) Make sure the system is in disarmed state with no alarm memory existing.
- 7) Enter the [User Code], press [BYPASS], Key-in the [ZONE NUMBER(S)] that you wish to bypass, and validate with [#] key.



- The bypassing zone(s) can be keyed-in continuously.
- The control keypad gives 2 beeps to confirm that system is ON and exit delay starts, the EXIT/ARMED LED flashes after the [#] is pressed.
- The bypassed zone LEDs flash all the time to indicate that the bypassed zones are not protected.
- The system will be armed after the exit delay expired, the EXIT/ARMED LED and the partition LEDs are ON.
- You are allowed to move about freely inside the premises that the protection zones are bypassed.
- The manually bypassed zones are only for one time and are not in memory for future use. They are reset when the system is disarmed.

DISARM THE SYSTEM

In the condition of there was no alarm occurred when you come back from outside. Simply key-in the [User Code] and validate with [#] to disarm the system.



- Key-in the Code within the Entry Delay period.
- The system dis-arms instantly after Code entry.
- 2-beep confirms correct Code entry.
- 5-beep for wrong code entry. Key-in the right User Code again after the beeps.

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HA-263 is a high performance local alarm control panel designed for home and office protections. It features simple to use and simple to set up the system with minimum programmings. All the main features can be set up via the jumpers on the circuit board. Absolutely no learning is required. It is an ideal system for both "Do-it-yourself" and professional users.

The HA-263 comes with 3 partitions, they are partition 1, partition 2 and the common partition. Partitions 1 and 2 are independently controlled for arm-disarm just like two alarm control panels, which give the maximum flexibility for user's convenience and protection arrangement. The common partition consists of one lobby protection zone and one 24 hour protection zone. The 24 hour zone works all the time for emergency alarms, such as fire, panic etc.. The lobby protection zone is armed while both partitions 1 and 2 are armed to give maximum protection; and it is disarmed while one of the partitions is disarmed. This allows either partition to arm, while leaving the lobby for access into the other partition.

The HA-263 is offered with two versions, the HA-263K is arm-disarm controlled with keyswitch for simple operation. The HA-263D comes with a digital keypad for arm-disarm control with user codes, which also offers some additional features via programming on keypad.

The system can also be controlled with keyswitches and digital keypads in mixed operation. The combined number of keyswitches and digital keypads are 4 maximum in total.

The features of the 8 protection zones in the 3 partitions are as follows:

- Partition 1
 - ZONE 1 --- Delay
 - ZONE 2 --- Instant
 - ZONE 3 --- Instant
- Partition 2
 - ZONE 4 --- Delay
 - ZONE 5 --- Instant
 - ZONE 6 --- Instant
- Common Partition
 - ZONE 7 --- Delay (Lobby)
 - ZONE 8 --- 24 Hour Instant

ARM THE SYSTEM FOR HOME MODE (FOR USER CODE 3 ONLY)

- 1) This function can only be done with User Code 3
- 2) The protection zones stored in memory will be bypassed when the system is armed for home mode.
- 3) Enter User Code 3, press [HOME] and validate with [#] key.

USER CODE 3 HOME #

- 2-beep confirms correct code entry, exit delay starts and EXIT/ARMED LED flashes.
- The bypassed zone LEDs flash all the time to indicate that the zones are not protected.
- System will arm after exit delay expired. The appropriate partition LED and the EXIT/ARMED LED are ON.
- You are allowed to move about freely inside the premises that the protection zones are bypassed.

NOTE: The User Code 1 or User Code 2 still can be used to disarm its specific partition while the system is operating on HOME mode.

ARM THE SYSTEM FOR HOME MODE INSTANTLY (FOR USER CODE 3 ONLY)

- 1) The system arms instantly without Exit Delay on HOME mode.
- 2) Enter User Code 3, press [HOME], enter [2] and validate with [#] key.

USER CODE 3 HOME 2 #

- 2-beep confirms correct code entry and arms instantly for HOME mode.

ARM THE SYSTEM WITH MANUALLY BYPASSED ZONE(S)

In some circumstances, making bypass to the protection zone(s) temporary may be required, such as:

- 1) To bypass the faulty zone(s).
- 2) To bypass the zone(s) that is not the habitually bypassed zone(s) in memory.
- 3) User Code 1 can only make bypass to the protection zones in partition 1 excluding the common zones.
- 4) User Code 2 can only make bypass to the protection zones in partition 2 excluding the common zones.

OPERATION

The User Code that stated in the description of operation stands for the code for arm-disarm control of partition 1, partition 2 or the whole system.

- a) User Code 1 for Partition 1
- b) User Code 2 for Partition 2
- c) User Code 3 for the Whole System

NOTE: FORCE TO ARM

This system is designed with "Forced To Arm" operation. If faulty zones exist it will bypass the faulty zones automatically after it is armed. The LED of the faulty zones will flash to indicate that they are not protected and the "Forced To Arm" LED will also flash to warn the owner that the system is Forced To Arm with the faulty zones bypassed.

ARM THE SYSTEM

- 1) Make sure that the alarm system is in disarmed mode and no alarm memory is existing on the zone indicator. If exists, clean it first.
- 2) Enter an appropriate User Code and validate with [#] key

USER CODE #

- 2-beep confirms correct code entry, exit delay starts and EXIT/ARMED LED flashes.
- 5-beep indicates incorrect code entry. Enter your code again.
- System will arm after exit delay expired. The appropriate partition LED and the EXIT/ARMED LED are ON.

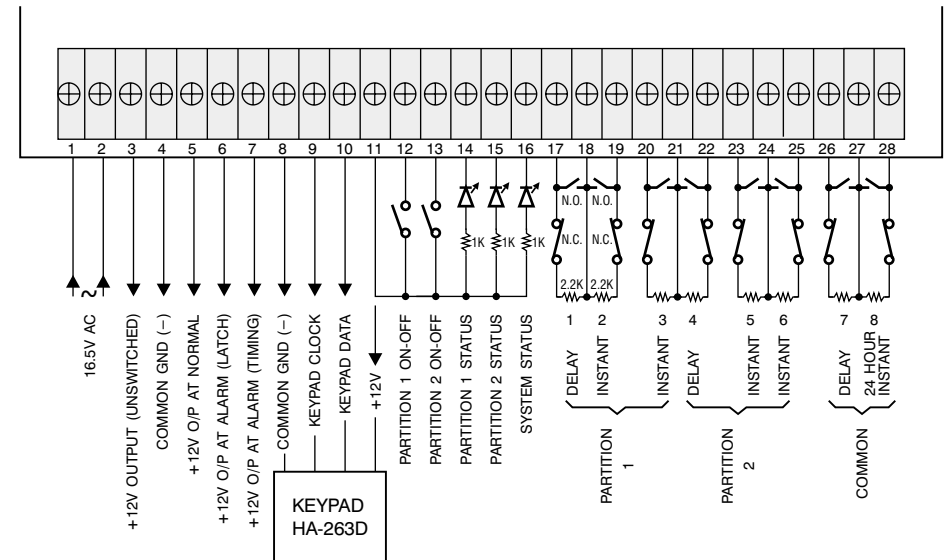
ARM THE SYSTEM INSTANTLY (NO EXIT DELAY)

- 1) Make sure that the system is in disarmed mode and no alarm memory exists.
- 2) Enter an appropriate User Code, press the [*] key, enter [2] and validate with [#] key.

USER CODE * 2 #

- 2-beeps confirms correct code entry and the system arms instantly. The partition LED and the EXIT/ARMED LED are ON.
- As the system arms instantly, you may not be able to walk through the protected area. The control keypad must be installed outside the protected area.

CONNECTION TERMINALS



WARNING:

- THIS EQUIPMENT IS ONLY TO INSTALL BY QUALIFIED PERSONNEL
- TAKE IT TO QUALIFIED SERVICEMAN WHEN SERVICE OR REPAIR WORK IS NEEDED

- 1, 2: AC Power is supplied from a 16.5V AC, 1.5Amp minimum transformer at 50 or 60Hz. The primary side of the transformer must be connected to an unswitched receptacle.

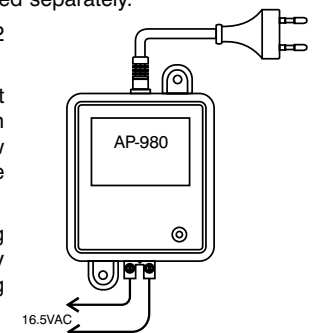
NOTE: a) The transformer to be used in this product must be complied in the EN 61558 standard (Model: AP-980) for European countries.

- b) The system gives 1 minute Standby Delay instantly once it is powered-up

A) CONNECTION OF POWER TRANSFORMER

AP-980 power transformer is recommended for 220-240V AC operation, which is 16.5VAC output, 3 Amp maximum rating. Power transformer is purchased separately.

- Connect the 16.5VAC output voltage to terminals 1 and 2 on the board.
- Wiring to the AC transformer must not exceed 100 feet using 16 gauge wire. The voltage reading between terminals 1 and 2 of the control must not fall below 16.5VAC. Always put the power transformer closed to the control.
- Do not plug the transformer into AC outlet until all wiring connections to the control are complete. As a safety precaution, always power down the control when making such connection.
- The power transformer can be fixed on wall with screw.

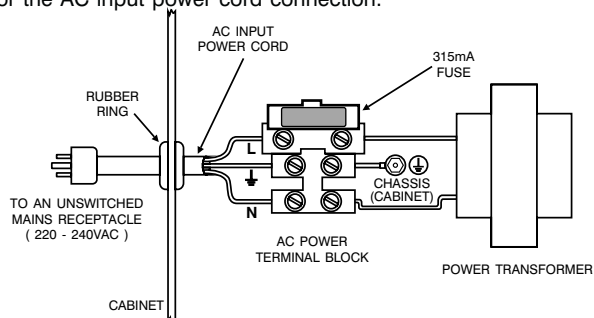


B) CONNECTION OF THE POWER CORD TO THE AC POWER TERMINAL BLOCK (For "T" Version only)

● The "T" Version alarm control panel comes with a built-in power transformer. Its Secondary side (16.5VAC) was connected to Terminals 1 and 2 of the main circuit board at the factory and that the Primary side is connected to an AC power terminal block which is prepared for the AC input power cord connection.

● Secure the AC input power cord firmly to the terminal block according to the indications below:

- L : LIVE
- ⏚ : EARTH (GROUND)
- N : NEUTRAL



- Put the rubber ring (provided) on the feed through hole for the AC input power cord to prevent from scratch.
- The AC input power cord connecting to the Primary side of the power transformer MUST be connected to an unswitched Mains receptacle for continuous AC power.
- The power transformer is protected with a 315mA/250V fast blow glass fuse at the primary side.
- If fuse opens, remove AC and DC power, remove the short or overload condition, then replace the fuse before restoring power. DO NOT substitute a higher rated fuse.

3: This terminal provides an unswitched +12V output power referring to the common ground. It gives output power all the time no matter the system is armed or disarmed. Suitable for those devices require uninterrupted power supply. Such as smoke detectors, control keypads etc. This terminal is equipped with a 750mA resettable fuse.

4: Common Ground (-)

5: This terminal provides a continuous +12V output power at normal condition of no alarm occurred. Mostly suitable for the connection of Satellite Siren/Strobe Light. The +12V output is switched OFF at alarm condition. The output is equipped with a 2.5A resettable fuse.

REMARK:

A Satellite Siren-Strobe Light unit is a self-contained device with built-in backup battery which is charged by the hold-off voltage from the control panel at normal condition. At which, the siren and strobe light are OFF. At alarm condition, the hold-off voltage from the control panel is cut. The siren and strobe light at the unit start to work. They are supplied by the backup battery. The siren will stop when the pre-set time expires, and that the strobe light will work until the hold-off voltage resumes.

A Satellite Siren-Strobe Light is self-protected and tamper-proof. It gives alarm instantly if the connection wire between the unit and the alarm control panel is cut.

6: This terminal provides a continuous +12V output power at and after alarm condition until the system is disarmed. It is mostly suitable for providing power for the stand alone strobe light or those devices require continuous operation at alarm condition after the siren timer is reset. The output is equipped with a 2.5A resettable fuse.

REFRESH THE SYSTEM TO ITS DEFAULT VALUES

(Location 21)

LOCATION	ENTRY OF CODE	VALIDATION
21	00	#

● Once the system is refreshed, all the programmed values in their Locations will be cleared or setting back to their default values except the Master code in Location 01.

The Default Values after refresh

- a) Location 11, User Code 1 --- Cleared
- b) Location 12, User Code 2 --- Cleared
- c) Location 13, User Code 3 --- Cleared
- d) Location HOME----- All Zones are Cleared
- e) Location 14, The Beeps ----- 1 1 1 1 (All beeps enabled)
- f) Location 15, Zone response Time --- 3 3 3 3 3 3 3 (All zones set on 500mS)

EXIT PROGRAMMING MODE

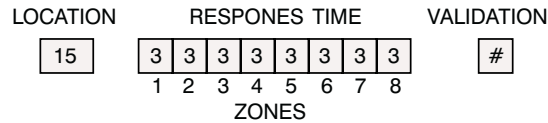
VALIDATION



● Every time after programming is finished. It is necessary to set system to exit programming mode and back to normal operation. It can be done at anytime by pressing the [*] key twice.

- Each code can be selected for 1 or 0
1 = Beep Enabled (Default)
0 = Beep Disabled
- The above beep settings are for the keypad only. They have nothing concern with the beep settings on the main circuit board. The beeps for keypad and circuit board are independent.
- The warning beeps for Battery Low and AC Power Failure cannot be OFF and is not affected by the above settings.
- The confirmation beeps from the "*" & "#" keys are always enabled.

SET THE RESPONSE TIME TO DETECT AN ALARM FOR EACH ZONE
(Location 15)



RESPONSE TIME

- The zone response time is fixed on 500mS for HA-263K, which is the value suitable for most of the sensors' alarm output.
- In some application environment or the nature of some sensors, shorter or longer response time may be required for a protection zone. Please consult the sensor suppliers before setting the time to the protection zone.
- HA-263D allows the owner to set different response time to each protection zone independently.
- The 8 digit code represents the 8 protection zones. The first digit is zone 1 and the last digit is zone 8. Owner can put the timing code into the specific digit to independently set the desired response time for the 8 protection zones.

The Timing Codes for Response Times

- 1 = 25mS
- 2 = 250mS
- 3 = 500mS (Default)
- 4 = 750mS

- 7: This terminal provides +12V output power at alarm condition with the time period according to the setting of the alarm timer. It is suitable for energizing electronic siren or alarm bell. The output is equipped with a 2.5A resettable fuse.
- 8, 9, 10, 11: This group of terminals are the connection points for the digital keypads (HA-263D). All keypads can be connected in a parallel configuration back to these terminals and more than one keypads can be allowed. The maximum allowed number of keypads and keyswitches are 4.
8: Common ground (-) 9: Clock wire 10: Data wire
11: +12V power common point, equipped with a 750mA resettable fuse

NOTE: No connection to these terminals are required for HA-263K

- 12: This terminal is prepared for connection of keyswitches (RKS-2M) for arm-disarm control of the Partition 1. It accepts Normally Open (N.O.) momentary type switches and is +12V triggered. More than one switches can be connected in parallel.
- 13: This terminal is prepared for connection of keyswitches (RKS-2M) for arm-disarm control of the Partition 2. It accepts Normally Open (N.O.) momentary type switches and is +12V triggered. More than one switches can be connected in parallel.

NOTE: a) Terminal 12 and 13 can be connected together to one keyswitch for combined arm-disarm control of the two partitions.
b) Hold the keyswitch in contact for more than 1/2 second to arm or disarm Partition 1 or Partition 2. Two beeps will be generated to indicate that the system is ready to arm.
c) If continuously hold any one of the keyswitch in contact for more than 5 seconds and ignore the 2 arming beeps will set system in Standby Mode.

UTILIZE THE KEY SWITCH FOR SYSTEM ARM-DISARM CONTROLS

ARM THE SYSTEM		
KEY SWITCH CONTACT	STATUS	RESULTS
One Touch (>1/2 second)	<ul style="list-style-type: none"> • Make arming for partition 1 or 2 	<ul style="list-style-type: none"> • Exit delay starts • Exit beep sounds if it is enabled • System will be armed after exit delay expired
DISARM THE SYSTEM		
1st Touch (>1/2 second)	<ul style="list-style-type: none"> • Make disarming for partition 1 or 2 	<ul style="list-style-type: none"> • The system is disarmed and reset if there was no alarm occurred. It is ready for re-arming • The system is disarmed but with alarm memory if there was alarm occurred, 2nd touch is required
2nd Touch (>1/2 second)	<ul style="list-style-type: none"> • Alarm memory is cleared & the system keeps in disarmed mode 	<ul style="list-style-type: none"> • The alarm memory LEDs are off (both the STATUS LED on keyswitch and the zone LEDs on the keypad) • The system is ready for re-arming

14,15: These terminals are prepared for connection of LED indicators to show the zone status of partition 1 and partition 2 respectively.

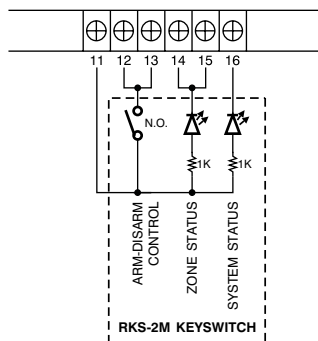
Terminal 14 and 15 can be connected together to one LED indicator for combined zone status indication of the two partitions.

16: This terminal is prepared for connection of LED indicator for system status indication.

THE HA-263K

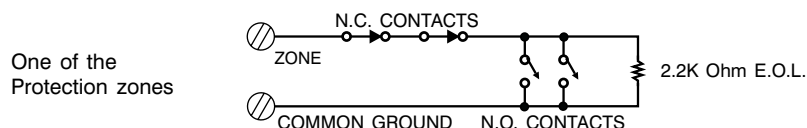
The standard HA-263K is supplied with only one key-switch for arm-disarm control of the partition 1 and 2 in combined operation. Independent control of the two partitions require two switches. Additional key-switches (Model: RKS-2M) can be purchased separately.

The diagram shows the connection of using one key-switch for combined arm-disarm control of the two partitions. All zones in the system are controlled together except the 24 hour zone.



17,18,;These terminals are protection zones 1 to 8 and their 19,20, common grounding terminals. The zones are E.O.L. (End 21,22, of Line) monitored by a 2.2K Ohm resistor.

23,24, All normally closed (N.C.) contacts are to be wired in series with the E.O.L. resistor, where 25,26, all normally open (N.O.) contacts are to be wired in parallel with the E.O.L. resistor. The 27,28 function of the zones are programmable via the programming jumpers. The response time of the zones is 500mS.



A protection zone with E.O.L resistor, either an open or a short will be reported as an alarm if the zone is in armed state.

- | | | | |
|------------------------|----------------------|------------------------|----------------------|
| 17: Zone 1 --- Delay | } Partition 1 | 22: Zone 4 --- Delay | } Partition 2 |
| 19: Zone 2 --- Instant | | 23: Zone 5 --- Instant | |
| 20: Zone 3 --- Instant | | 25: Zone 6 --- Instant | |

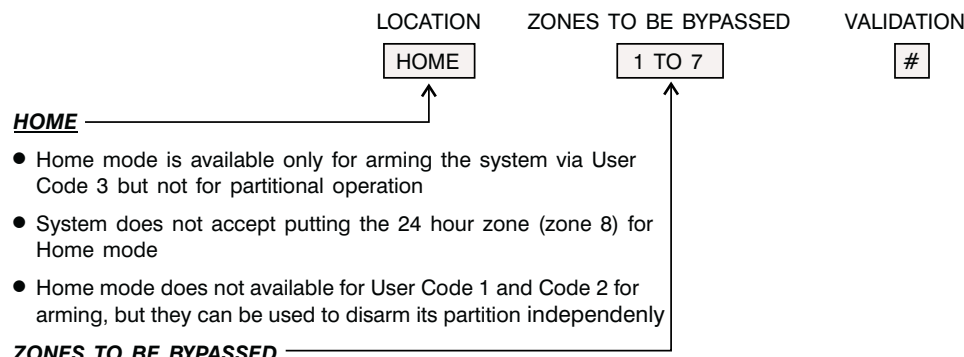
- 26: Zone 7 --- Delay (Lobby) } **Common Zones**
 28: Zone 8 --- 24 Hour Instant }

18, 21, 24, 27 --- Common ground (-)

NOTE:

- The protection zones in partition 1 and partition 2 can be arm-disarm controlled independently by separate key-switches and/or by digital keypad HA-263D.
- Zone 7 is a protection zone for common area, such as lobby, which is disarm-controlled following partition 1 or partition 2. If one of the partitions is OFF, this common zone is OFF. It is armed only while both partitions are armed.
- Zone 8 is a 24 hour protection zone that works 24 hours a day and cannot be turned OFF with keyswitch except in the Standby period.

PUT THE HABITUALLY BYPASSED ZONES IN MEMORY FOR "HOME" MODE
 (Location HOME)



HOME

- Home mode is available only for arming the system via User Code 3 but not for partitional operation
- System does not accept putting the 24 hour zone (zone 8) for Home mode
- Home mode does not available for User Code 1 and Code 2 for arming, but they can be used to disarm its partition independently

ZONES TO BE BYPASSED

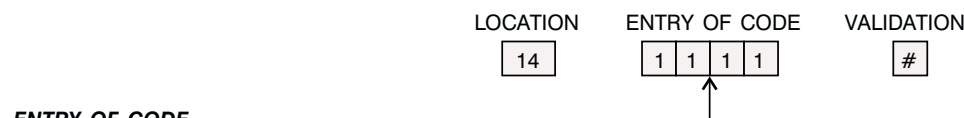
- Put the intended bypassed zone(s) in memory one by one. Continuous zone number entry is acceptable

Example: [HOME] [1] [2] [4] --- [#]

- Putting the habitually bypassed zone(s) in memory is convenient for the owner to set system for HOME mode instantly. He does not require to set the bypassed zone(s) one by one every time but just simply key in the following commands to arm the system with the zone(s) in memory bypassed.

[USER CODE 3] [HOME] [#]

SET-UP WARNING, PRE-WARNING & PACIFIER BEEPS FOR THE KEYPAD
 (Location 14)



ENTRY OF CODE

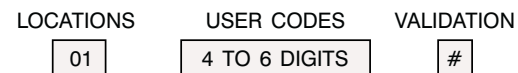
- The Entry of code is a 4 digit code. Each digit represents one kind of beeps in Enable or Disable mode.

- 1st Digit --- Exit Beep (Beep for exit delay)
- 2nd Digit --- Entry Beep (Beep for entry delay)
- 3rd Digit --- Alarm Warning Beep (Beep for after an alarm condition)
- 4th Digit --- Pacifier Beep (Beep for each key button pressed)

START THE PROGRAMMING

After the system is set in programming mode, you can program the system with your desired values of the available options. You can make the programming for all the options continuously or just select the option(s) that you require. It is not necessary to make the programming in order sequence; you can jump to any Programming Location that is available in the system.

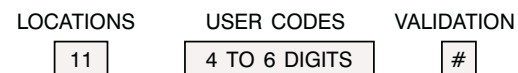
RECORD A MASTER CODE (Location 01)



MASTER CODE

- Master Code is the authorization code for setting system into programming mode
- The master code can be 4 to 6 digits
- When a new master code is keyed in and confirmed, the old code will be erased

RECORD A USER CODE (Locations 11-13)



LOCATIONS

- 11** = User Code 1 --- For arm-disarm control of partition 1
- 12** = User Code 2 --- For arm-disarm control of partition 2
- 13** = User Code 3 --- For arm-disarm control of the whole system (partition 1 & 2)

USER CODE

- The user codes can be 4 to 6 digits
- When a new code is keyed-in into the location and confirmed, the old code will be replaced.
- To invalid a code, just key-in the location number followed immediately with [#] key without program data.

THE BACK-UP BATTERY

The back-up battery is not supplied. It is required to purchase separately.

- The back-up battery should be 12V, 6.5-7.0Ah sealed lead-acid type
- Replace battery every 3-5 years
- The back-up time is 16 hours at 250mA

BATTERY CONNECTION

The (+) RED wire connects to the positive terminal of the battery and the (-) BLACK wire connects to the negative terminal of the battery. The battery should be a 12V sealed lead acid rechargeable type with a capacity of 6.5-7.0Ah. The battery is protected by a 3A resettable fuse, and it is charged by a current limiting regulated voltage source in the system.

PERIODIC BATTERY TEST

The system tests the back-up battery automatically once every 24 hours. The test takes around 5 seconds to 2 minutes depending on the condition of the battery. Visual and audible warnings will be given continuously if the battery is abnormal after testing.

MANUALLY INITIATED BATTERY TEST

Battery test can be initiated manually by momentary turning the key-switch to make contact once at anytime during the system is in Standby mode.

The system can be set to Standby mode for 1 minute by the following ways:

- Hold any one of the Partition Arm-Disarm key-switches in making contact for more than 5 seconds during both partitions are in disarmed mode. Ignore the 2 arming beeps and hold the key switch until the Standby Mode happens.
- Switch off both AC and battery power, then power-up again.

REMARKS:

- The manually initiated battery test through the key-switch is considered as a beginning of a new periodic battery test. The system will count the time of 24 hours for the next test from it.
- Battery test will not take place on alarm occur or AC power failure.
- Battery test will stop instantly if alarm occurs or AC power fails during the test.
- The system generates 2 beeps for normal battery, or 5 beeps and than 1 beep/30 seconds continuously for abnormal battery after battery test.

THE PROGRAMMING JUMPERS

The system allows the owner to set the desired functions directly with jumpers. The overall programming is exceptionally easy and no learning is required.

There are 8 jumpers on the circuit board provide the following feature settings.

1) SYSTEM SETTING

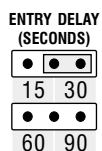
There are two positions available for System Setting with jumper.



- a) **KS (Key Switch)** --- Always put jumper on KS position for the system using Key-Switch for arm-disarm control (HA-263K). Once the jumper is on KS position, all the values programmed with the Digital Keypad will be refreshed to the default values and all the protection zones are set to have response time of 500mS that is the mostly suitable response time for most of the sensors' alarm output.
- b) **DK (Digital Keypad)** --- Always put jumper on DK Position for the system using Digital Keypad (HA-263D) for arm-disarm control. Once the jumper is on DK position, the system allows to program the additional features available for HA-263D from the keypad. Please see the features stated in the HA-263D section.

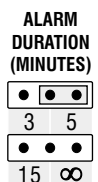
Remark: Put jumper on DK Position also for the system operating in combination of both Keyswitch and Digital Keypad for arm-disarm control.

2) ENTRY DELAY



Entry Delay is the time setting for the delay zones 1, 4 and 7 for the people to enter the protected area before activating the alarm outputs. There are 4 entry delay times available for selection. They are 15, 30, 60 or 90 seconds.

3) ALARM DURATION



This is the time setting for the "+12V O/P AT ALARM (TIMING)" relay output. The alarm output is auto-reset after time out. 4 positions are available for the time settings. They are 3, 5, 15 minutes or no time out for the output relay.

REMARK:

Some cities have noise pollution control and do not allow alarm output with no time out. Do not set alarm duration with no time out unless the alarm output is not for driving siren or bell.

FEATURE PROGRAMMING

PROGRAMMING PREPARATION

- 1) Make sure the system is in disarmed mode and no alarm memory existing at the protection zones in all partitions.
- 2) Set system in programming mode with Master Code.
- 3) System generates 2 beeps for successful code entry and 5 beeps for unsuccessful code entry.
- 4) The system stops all its normal function while it is in programming mode.

SET SYSTEM IN PROGRAMMING MODE

- 1) Key in the Master Code and validate it with .
- 2) For the owner's convenience in programming at the first time, factory has put a Master Code 1234 into the system. To compromise security, in all case, the owner should program a personal Master Code to invalidate the factory set Master Code.
- 3) In the case that the factory Master Code 1234 was replaced by owner's Master Code, use the owner's Master Code to set system in programming mode.

THE FACTORY OR OWNER'S MASTER CODE VALIDATION

- The keypad generates 2 beeps to confirm that system is in programming mode
- The PROGRAM LED is ON

ACCESS TO PROGRAMMING MODE WITH SYSTEM CODE -- 8080

In case the Master Code is forgotten. The owner requires to apply the following procedures to make system in programming mode with the System Code 8080.

- 1) Switch OFF both AC and battery power for 1 minute to ensure the system is fully discharged.
- 2) Switch ON power again. The system will be in Standby mode for 1 minute. The AC power and the Battery LED flash alternatively and short beeps will be heard. This is the only time period that allows to key in the System Code 8080.

SYSTEM CODE

VALIDATION

- The keypad generates 2 beeps to confirm that system is in programming mode and the "System Standby" finishes instantly after keying in the system code.
- The PROGRAM LED is ON.
- If the system code is not keyed-in within the Standby period, the system will go back to normal operation and refuse any data entry for programming. To set it back to system Standby mode, repeat procedures (1) and (2) are necessary.

NOTE: The system refuses the entry of the System Code 8080 if the Standby mode is set up with key-switch. Only the Standby mode after power-up is valid.

Battery LED

- a) OFF --- Battery normal
- b) ON --- Battery low
- c) Flash --- Battery under testing
- d) Flash Alternatively with AC power LED --- System in Standby mode

Program LED

- a) ON --- System in programming mode
- b) OFF --- System in normal operation mode

Forced To Arm

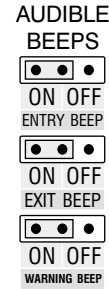
- a) OFF --- System armed normally
- b) ON --- System will be forced to arm if the faulty zone is not cleared
- c) Flash --- System forced to arm with the faulty zone(s) bypassed by the system

The Audible Notifications From The Keypad

EVENTS	NOTIFICATIONS
Successful key entry	1 short beep
Successful code entry for a specific function	2 short beeps
<ul style="list-style-type: none"> ● Unsuccessful code entry ● Code entry time expired (Maximum Allowable Time: 10 seconds/digit, 60 seconds/code) 	5 short beeps
Exit delay expired, system is armed	1 long beep
Battery low or AC power failure	1 short beep/30 seconds
During the Exit delay, Entry delay and System Standby period	<ul style="list-style-type: none"> ● Continuous short beeps at 0.5 second interval ● Beeping increases to 4 beeps/second at the last 10 seconds ● 1 long beep at the end of the period
After an alarm condition before the system is disarmed	4 short beeps with 1 second interval
<p>NOTE: All the above LED visual indications and audible notifications from the keypad are independent from the indications and notifications of the control panel.</p>	

4) AUDIBLE BEEPS

There are 3 jumpers for ON-OFF selection of Entry Beep, Exit Beep and Warning Beep independently.



- a) **Entry Beep** --- Beeps during the entry delay period.
- b) **Exit Beep** --- Beeps during the exit delay period.
- c) **Warning Beep** --- The system offers two modes of warning beep
 - i) The system gives warning beeps in alarm period and it stops the beeps when the alarm period expires if only one of the partitions is armed.
 - ii) The system gives warning beeps in both alarm period and after alarm period if both partitions are armed. The system stops the warning beeps when one of the partitions is disarmed. It prevents noise disturbance to the people at the other partition in house.

The after alarm warning gets the owner to pay attention on his alarm that was triggered and the thief might still be inside the house when he comes back.

5) HANDOVER

Handover is a special function that the system offers more security to the owner.



- a) **Handover ON** --- With the handover function enabled, if the Lobby zone (zone 7) is triggered first, the instant zones (except the 24 hour instant zone) will follow the zone 7 to give entry delay with the same delay period. The instant zones will resume to instant mode after the entry delay expired. With this feature, the owner can set the motion sensors for interior protection with instant zones and the main door protection with zone 7. The system will always give instant alarm if the person (might be an intruder) does not enter the house through the lobby zone but break in from window.
- b) **Handover OFF** ---The system is in normal operation. All the instant protection zones keep in their function but not follow the delay time of zone 7.

NOTE: The delay zones in the two partitions do not have handover function.

6) RING-BACK

Ring-back signals are the loud acknowledgement signal coming out from the siren to inform the owner of the arming and disarming status of the system.



- a) **Ring-back ON** --- The system energizes the Timing Output Relay twice to make the siren to generate two short beeps when the system is armed; and energizes the Output Relay once to generate one short beep when the system is disarmed.
- b) **Ring-back OFF** --- The Timing Output Relay does not activate when the system is armed or disarmed, no beep is generated as arm-disarm acknowledgement from siren.

SYSTEM STANDBY

The system standby period begins right after power-up or set it manually by holding the keyswitch in contact for more than 5 seconds during the system in disarmed mode. It lasts for 1 minute. During the standby period, the system keeps all its functions in sleeping except the following two function items:

- a) Manually initiate battery test with the key-switch -- one touch contact
- b) Set system to programming mode with system code (HA-263D only)
 - Zone status LEDs (partition 1 & 2) and system status LED flash alternatively until the end of the period
 - System generate warning beeps until the end of the period
 - The LED indicators and the warning beeps stop instantly if one of the above two functions is keyed in, and the system ends the standby mode
 - The system is in disarmed condition after the standby period

ARM THE SYSTEM

- a) Make sure that the alarm system is in disarmed state and has no alarm memory existing in the protection zone.
- b) Turn the key-switch of Partition 1 or Partition 2 to make contact for more than 0.5 second to arm the desired partition. If partition 1 and 2 are connected together with one key-switch for combined control, both partitions will be controlled at the same time.
- c) Hold the key-switch in contact for more than 1/2 second until the system generates two beeps to confirm that exit delay has began. Release key-switch instantly. The zone status LED starts to flash. The exit delay is 1 minute fixed.
- d) The system is armed after exit delay expired and the zone status LED gives 2 short flashes/seconds continuously all the time while the system is armed.

DISARM THE SYSTEM

- a) In the condition of there is no alarm occurred when you come back from outside.
- b) Turn the key-switch to make contact until 2 beeps are heard to disarm the system within the entry delay period. The zone status LED is OFF. The system is disarmed and ready for next arming operation.

DISARM THE SYSTEM IN ALARM OR AFTER ALARM

- a) Turn the key-switch to make contact until two beeps are heard to disarm the system and silence the siren instantly.
- b) The zone status LED gives 3 short flashes/second as alarm memory to show that alarm was occurred.
- c) Turn the key-switch to make contact once again to clear the alarm memory.
- d) The zone status LED is OFF and 2 short beeps are heard. The system is disarmed and ready for next arming operation.

Control Key Buttons

There are 14 buttons for code entry and function confirmation:

- a) Numeric Buttons, 1-0 --- For code entry
- b) *, # --- For function confirmation
- c) HOME --- For home mode arming and programming
- d) BYPASS --- For system arming with zone(s) temporary bypassed

Zone Status LEDs 1-8

- a) ON --- Zone Abnormal
- b) OFF --- Zone Normal
- c) Fast Flashing --- Zone is or was in alarm
- d) 3 Fast Flashings with Stopping Interval --- Zone was alarmed and is in alarm memory. System is disarmed.
- e) Slow Flashing --- Zone is bypassed

Exit/Armed LED

- a) ON --- System armed (whole system or one of the partitions)
- b) OFF --- System disarmed (the whole system)
- c) Flash --- System in exit delay period

Partition 1 LED

- a) ON --- Partition 1 armed
- b) OFF --- Partition 1 disarmed
- c) Flash During Exit Delay

Partition 2 LED

- a) ON --- Partition 2 armed
- b) OFF --- Partition 2 disarmed
- c) Flash During Exit Delay

AC Power LED

- a) ON --- AC power normal
- b) Flash --- AC power failure
- c) Flash Alternatively with Battery LED --- System in Standby mode

HA-263D

GENERAL DESCRIPTION

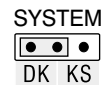
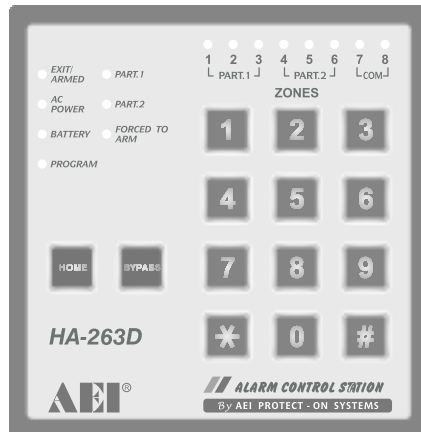
HA-263K owner requires no study of this section. All information is for HA-263D only.

HA-263D is the version comes with a digital control keypad which allows owner to program two independent user codes for partition 1, 2 and the common partition; and also one user code for the whole system in arm-disarm control. Apart from that the system also gives the following Additional features:

- 1) Set up Master Code for programming authorization.
- 2) Software panic button -- press any two buttons simultaneously for more than 3 seconds to give alarm.
- 3) Make bypass to the un-used zone(s) and the faulty zone(s).
- 4) Put the habitually bypassed zone(s) in memory for HOME mode.
- 5) Make system to show the faulty zone(s) during disarmed condition with user code.
- 6) Make system to arm instantly without delay.
- 7) Clear the alarm memory in the specific partitions or in the whole system.
- 8) Initiate dynamic battery test at anytime during disarmed mode.
- 9) Initiate a 5-second operation of both timing and latch output relays to test the connected siren and strobe light.
- 10) System Code for Direct Access to Programming mode in case of the Master Code is forgotten.

THE DIGITAL CONTROL KEYPAD

The "System Setting Jumper" on the main circuit board MUST be set on "DK" Position for keypad only or keypad + keyswitch operation.



SUMMARY OF THE VISUAL AND AUDIBLE NOTIFICATIONS

THE ZONE STATUS LEDS FOR PARTITION 1 AND 2

EVENTS	INDICATIONS
System disarmed	OFF
Zone abnormal during Exit Delay Period, check the circuit loop immediately	ON
All zones normal during Exit Delay Period	Flash
System armed after Exit Delay expired	2 Short Flashes/Second
System is or was in alarm (alarm occurred)	Fast Flashes
System in alarm memory	3 Short Flashes/Second
System is forced to arm and the abnormal zone(s) is isolated by the system	ON
System in power-up delay or in Standby mode	Flashes Alternatively with System Status LED

NOTE:

- * The Zone Status LED of the later turned-on partition also shows the status of the Common zones. As the common partition follows the later partition to arm.
- * The alarm indication of zone 7 goes to the later armed partition
- * The alarm indication of zone 8 (24 hour) goes to both partitions.

THE SYSTEM STATUS LED (SHOWING THE SYSTEM STATUS ALL THE TIME)

EVENTS	INDICATIONS
AC power and battery power normal	ON
AC power failure	2 Flashes with one second pause
Battery Low	3 Flashes with one second pause
Battery under testing	Flash
System in Standby mode	Flashes Alternatively with Zone Status LEDs

THE AUDIBLE NOTIFICATIONS

EVENTS	NOTIFICATIONS
System in Exit Delay Period OR System in Entry Delay Period	Exit And Entry Beeps <ul style="list-style-type: none"> ● Short beeps at 0.5 second interval ● Increase to 4 beeps/second at the last 10 seconds, then ● One long beep to indicate the end of the delay period
System in Standby Mode Period	<ul style="list-style-type: none"> ● Short beeps at 0.5 second interval ● Increase to 4 beeps/second at the last 10 seconds, then ● One long beep to indicate the end of the period <p>NOTE: The beep stops at anytime when manual battery test starts or when system is set to programming mode with the system code (HA-263D)</p>
System is or was in Alarm condition (Alarm occurred)	Warning beeps <ul style="list-style-type: none"> ● 4 fast beeps at 1 second interval
Successful Key-switch operation OR Battery is Normal after Testing	2 Short beeps
AC power Failure	1 Short beep/30 seconds
Battery Low After Testing	5 Short beeps first, then 1 Short beep/30 seconds

OPEN THE CABINET FOR SERVICE

The HA-263K is protected by a built-in tamper switch. Opening of the cabinet will trigger the tamper switch to give alarm.

If opening of the cabinet for service is required, it is necessary to set the system to standby mode by holding the keyswitch in contact for 5 seconds (ignore the 2 arming beeps). The standby mode lasts for 1 minute and the system gives no function including the tamper switch during the period. Setting the system to standby mode can only be done while all the partitions are in disarmed mode without alarm memory existing.

GENERAL SPECIFICATIONS

- Power Source : 16.5V AC
- Back-up Battery Requirement : 6.5-7.0Ah, 12V Rechargeable sealed lead acid - not included (Built-in Charger in system)
- Temperature Range : 0 Deg C to +65 Deg C
- Standby Current : 100mA Typical
- Protection Zones : 8 Protection zones in 3+3+2 partitions
- Control Station : Key-switches and/or Digital keypads, 4 maximum
- Entry Delay : 15-90 Seconds
- Exit Delay : 60 Seconds
- Alarm Duration : 3-15 Minutes, or ∞
- Power Up Delay (Standby Mode): 60 Seconds
- Audible Beeps : Entry, Exit & Alarm Warning, ON-OFF programmable
- G. Weight : 2.5 Kgs (one Master unit & one Control Station)
- Dimensions : Master unit: 265(W) X 270(H) X 78(D) mm
Key-switch: 73(W) X 117(H) X 43(D) mm
Digital Keypad: 117(W) X 117(H) X 27(D) mm