



# **350 Arming Station with Zone Display Operation and Installation Manual**

---

# **350 Arming Station With Zone Display**

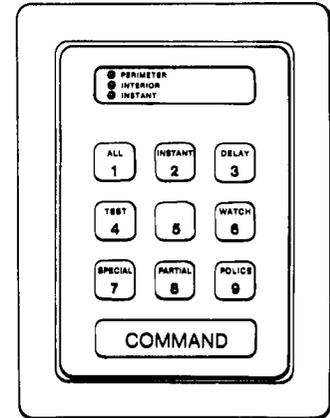
## **Table of Contents**

- 1. Description**
- 2. Arming And Disarming**
- 3. The 350 Display**
- 4. Warning Signals**
- 5. Command Functions**
- 6. Using 8112 Features With The 350**
  - Selective Zone Shunting**
  - Duress Alarm**
  - Force-Arming**
  - Remote Programming**
  - Walk Test**
- 7. Testing The 350**
  - Troubleshooting**
- 8. Specifications**
- 9. Installation**

## 1. Description

The Model 350 Arming Station With Zone Display is a command center for the Omegalarm 8112 Control/Communicator. The 350 is available as surface or flush mounted models. (See Section 9. for installation instructions.)

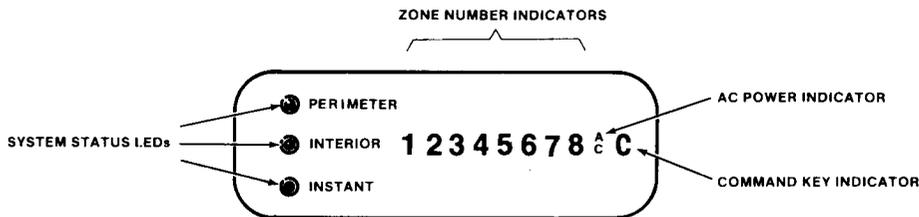
Many features of the 8112 security system can be controlled at the 350 keypad just by pressing the Command Key followed by a number/function key. (If the 8112 is not programmed to perform a specific command, entering that command at the 350 has no effect.)



## 2. Arming And Disarming

The 8112 security system is armed or disarmed by entering a five or six digit combination at the Arming Station. If there are faulted zones the keypad buzzes when digits are touched. While the 8112 Control/Communicator is transmitting to the Central Station, the keypad is inoperable. If the keypad seems unresponsive, wait a few seconds and try again.

## 3. The 350 Display



ARMED STATUS is shown by the system status LEDs at the left side of the display. The LEDs shine steadily when armed, extinguish when disarmed and flash during exit delay. If the 8112 Control/Communicator sends Closing Reports after exit delay the Perimeter and Interior LEDs will continue to flash while the Closing Report is transmitted. The system is in armed status while the Closing Report is being transmitted; zone violations will trigger an alarm.

### ZONE NUMBER INDICATOR

**Trouble** - Zones with a trouble condition show as a steadily lighted zone number indicator. When a troubled zone is restored its indicator extinguishes.

**Invisible** - An "invisible" zone does not light or flash for alarms. However, the indicator of an "invisible" zone is displayed when it has a trouble condition or is selectively shunted. See the 8112 Control/Communicator Operation And Installation Manual, Zone Code Index. To make all zones invisible until a number/function key is touched, see the 8112 Control/Communicator Program Entry Guide, Item 103, SHOW.

**Alarm Memory** - The zone number indicator of a zone which has had an alarm flashes until the system is next armed. The user can disarm the system to silence a bell or siren and still see the zone where the alarm occurred.

**Shunted** - The indicator of a selectively shunted zone flashes slowly. If more than one zone has been selectively shunted their numbers blink together. If a shunted zone is faulted, its blink alternates with the other shunted zones. See Section 6. Selective Zone Shunting.

**AC POWER** - The indicator shines steadily if the 8112 is operating on AC power and flashes if the 8112 is operating on battery power.

**COMMAND KEY** - " C " lights when the Command Key is pressed and stays on approximately 15 seconds or until a number/function key is pressed.

	Steady Light	Slow Flash	Rapid Flash
System Status	Armed	Exit Delay	n/a
Zone Number Indicator	Trouble	Shunted	Alarm
AC Power Indicator	AC Power	Battery Power	n/a

#### 4. Warning Signals

**FIRE SIGNAL** - The built in buzzer buzzes steadily to warn of "Fire" and of faulted zones programmed to buzz on a fault.

**ENTRANCE WARNING** - The 350 Arming Station lights and buzzes to remind the user to disarm the system. See the 8112 Control/Communicator Program Entry Guide, Item 71, Prewarn.

**FAULTED ZONES** - When zones are faulted the Arming Station buzzes at each key touch. If a zone is programmed to buzz on a fault, the buzzer can be silenced by entering an arm/disarm combination or by entering Command 4. (See Section 5. Command Functions)

WATCH TONE - When Command 6 "Watch" is activated, a brief distinctive tone alerts the user when any zone programmed as perimeter is faulted.

### 5. Command Functions

Command functions are activated from the 350's keypad by pressing the Command Key then a number/function key described below. Each Command function must be enabled by appropriately programming the 8112 Control/Communicator. For programming see the 8112 Control/Communicator Program Entry Guide, Item numbers as shown.

The 8112 can be programmed so that persons using the Command Key must first enter a Command Key code to allow its use. Pressing the Command Key without its programmed code "locks" the keyboard for approximately five seconds. For programming, see the 8112 Control/Communicator Program Entry Guide, Section 13. ARMING COMMANDS.

Only Command 7 and Command 9 work when the system is armed, for other Command functions the system must be disarmed.

Command 1

Program Items  
83 Cmd 1  
87 FAMax  
88 FA 1

ALL- Starts exit time before Master arming all controlled zones (both Interior and Perimeter). When programmed, Command 1 can be used to Force-Arm.

Command 2

Program Items  
84 Cmd 2  
87 FAMax  
89 FA 2

INSTANT - Instantly arms all perimeter zones allowing no exit delay time. Faulting any perimeter zone causes an instant alarm, even if the zone normally has entry delay. When programmed, Command 2 can be used to Force-Arm.

Command 3

Program Items  
85 Cmd 3  
87 FAMax  
90 FA 3

DELAY - Starts exit time before arming all perimeter zones. Standard entry time initiated only by perimeter zones programmed for delay. When programmed, Command 3 can be used to Force-Arm.

Command 4

BUZZER - For zones programmed to buzz on a fault when the system is disarmed, this command resets alarm memory and silences the Arming Station buzzer.



Program Item  
91 Cmd41

TEST - Sends a Restoral Report to the Central Station. This tests two way telephone communications.



Program Item  
92 Cmd42

STATUS REPORT - Causes the 8112 Control/Communicator to transmit to the Central Station the armed/disarmed status, the loop fault status of each zone and a battery/AC power report.



Program Item  
33 Cmd43  
34 Pass

REPROGRAM - Enables Central Station to remotely reprogram the system's 8112 Control/Communicator. A delay of 30 seconds aborts this command. See Remote Programming, Section 6.



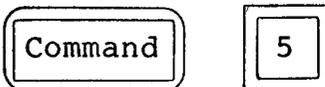
Program Item  
93 Cmd44

WALK TEST - After a brief bell test and test of the Arming Station's buzzer and zone number indicators, the system waits for the user to test protective devices. Alarm reports for controlled zones are not transmitted. Press any key to end the test.



Program Item  
94 Cmd47

RESET - Causes the 8112 Control/Communicator to briefly interrupt power to Terminal 8 if this option is programmed. See 8112 Control/Communicator Operation And Installation Manual, Switched Auxiliary Power. For example, this can reset a smoke detector.



Program Item  
95 Cmd5

COMBINATION - Allows the user to change the combination from the 350 Arming Station. Enter the old combination once followed by the new combination twice. If using the Duress feature do not use "9" as the final digit since there is no "0" on the 350 keypad.

Command

6

Program Item  
96 Cmd6

WATCH - The Arming Station buzzer sounds briefly when a perimeter zone is faulted. No report is sent to the Central Station. Press Command 6 again to deactivate.

Command

7

Program Item  
97 Cmd7

SPECIAL - A 24 hour zone that transmits a special report (Alarm Zone 1-9 as programmed). Operates whether system is armed or disarmed. Command 7 can generate a local alarm by being assigned to a zone that generates a local alarm.

Command

8

Program Item  
86 Cmd8

PARTIAL - Perimeter arming with entry/exit delay. Any non-priority perimeter zone that is faulted when arming will be shunted until the system is disarmed.

Command

9

Program Item  
98 Cmd9

POLICE - A 24 hour zone that sends a special report (Alarm Zone 1-9 as programmed). The Central Station operator interprets the report as instructed. Suggested use for panic.

## 6. Using 8112 System Features With The 350

### Selective Zone Shunting

During the Exit Delay one or more of the controlled zones can be shunted out of the system until the next time the system is armed. Press the Command Key followed by the same numbered keys as zones to be shunted. The display will blink the numbers of the shunted zones. A zone can be unshunted by pressing its key again during the exit delay period. Zones programmed as priority zones cannot be shunted.

### Duress Alarm

In an emergency situation the system can be armed or disarmed by entering a combination at the keypad with the final digit one greater than the normal combination. This silently transmits a Duress Alarm to the Central Station.

Example: If the standard combination is 12345, duress combination would be 12346. For programming see the 8112 Control/Communicator Program Entry Guide, Item number 53 Duress.

## **Force-Arming**

An arm/disarm combination or Commands 1, 2, or 3 can be used to Force-Arm the 8112. Hold down the last key of the arming sequence until the armed status LEDs light. The display will show the numbers of zones shunted by Force-Arming.

The 8112 system cannot be Force-Armed while a priority zone is faulted. If a zone is programmed to be a "Swinger Shunt", it is automatically returned to supervised status when restored. See 8112 Control/Communicator Operation And Installation Manual, Zone Code Index. When the 8112 is programmed for a keyswitch in the system, it is not necessary to hold down the last digit to Force-Arm at the digital keypad.

## **Remote Programming**

A Central Station, properly equipped, can remotely reprogram an 8112 Control/Communicator on site. The Central Station can initiate the reprogramming or it can be initiated on site by entering Command 43 at the digital arming station.

Command 43 does not initiate a dial-out. Before entering Command 43, the user must telephone the Central Station on the line used by the 8112. When Command 43 is entered, the 8112 seizes the line and sends a handshake tone to the central station. If it does not receive a reprogramming acknowledgement within 30 seconds, the 8112 terminates the call.

## **Walk Test**

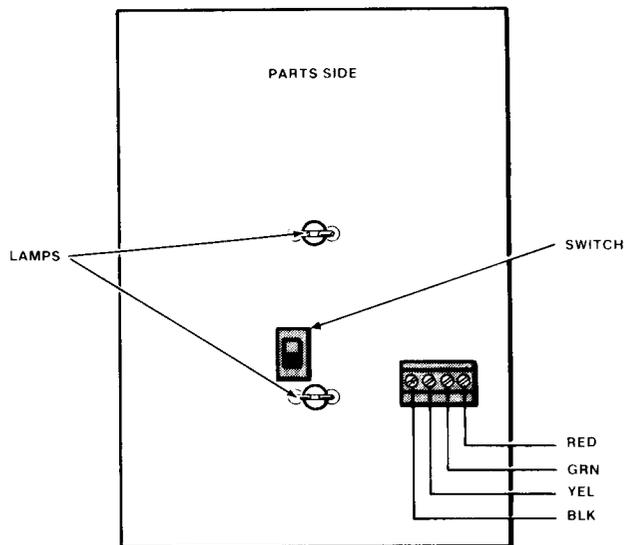
WALK TEST allows testing of the sensor components in a **controlled** loop without transmitting Alarm Reports. Tripping an alarm on a **24 hour** circuit transmits a report to the Central Station and ends the test.

When Command 44 is entered at the 350 the 8112 system does a bell test. The display flashes briefly and the buzzer sounds to demonstrate that the alarm indicating components of the Arming Station are in functioning order. If a zone is now put into an alarm condition, the 350 flashes its zone number indicator but alarms will not be transmitted for controlled zones. If a zone is put into a trouble condition its zone number indicator shines steadily. If the 8112 system is programmed to send Trouble Reports, they are transmitted to the Central Station as usual. Pressing any key ends the WALK TEST.

If a zone is programmed for steady bell output, the bell does not sound during WALK TEST. If a zone is programmed for pulsed bell output, the bell will sound for its programmed time period. Pressing any key silences the bell. Pressing a key to silence the pulsed bell output does not end the WALK TEST.

Set the slide switch on the rear of the printed circuit assembly to "TEST". The display shows the number of the key to be pressed. Keys 1 through 8 test the zone number indicator for zones 1 through 8. Key 9 tests the AC Power indicator. This tests all the annunciating components of the 350.

If the Arming Station lights and buzzes to indicate a test failure or a key pressed out of turn, the test sequence must be started over. After a successful test the system status LEDs flash, then the zone number indicators flash, then the Arming Station buzzes to remind the user to set the switch to "NORM".



### Troubleshooting

The Arming Station indicates failure of the Data In line by lighting all the zone numbers sequentially back and forth. If the Data Out line fails, the AC indicator remains lighted but the keypad is unresponsive. Power line failure between the Arming Station and the Control/Communicator produces a totally unresponsive, unlighted keypad.

The lamps used to illuminate the 350's keypad can be replaced (order Radionics part #P130). Free the lamp from its socket and pull it straight out the back side of the printed circuit assembly. Once the new lamp is installed and tested, silicone glue may be used to secure it.

## 8. Specifications

- DISPLAY** Zone status display by number; faulted zone, alarm memory, shunted zone
- AC Power Status indicator is ON when system is on AC power, FLASHES when system is on batteries.
- Command Key indicator lights when Command Key is pressed.
- System Status: Perimeter, Interior, Instant Arming, Exit Delay
- SIZE** Wall Mount: Height 6.5", Width 4.4", Depth 1.7"  
 Flush Mount Faceplate: Height 7.25", Width 6.35",  
 Wall Opening; Height 6", Width 5.25", Depth 2.25"

- COLOR** Surface Mount: Ivory enclosure, brown faceplate, white keys  
 Flush Mount: Brushed aluminum or brushed brass faceplate
- POWER** 10 to 14 VDC supplied by the 8112 Control/Communicator  
 Auxiliary Power Output
- CURRENT** 45 mA Idle  
 200 mA When backlight and buzzer are on
- WIRING** 22 AWG Four Conductor connected to terminal strip  
 400 feet maximum wire run/22 AWG wire

## 9. Installation

The 350 Arming Station needs only four wires connected to the 8112 Control/Communicator.

BLACK WIRE to Control/Communicator common TERMINAL 29.

RED WIRE to Control/Communicator Auxiliary Power TERMINAL 3.

GREEN WIRE (Data In) to Control/Communicator TERMINAL 30.

YELLOW WIRE (Data Out) to Control/Communicator TERMINAL 31.

Other Omegalarm digital arming stations using 4-wire connections similar to the 350 Arming Station are compatible with the 350 and may be used in the same system. Signals sent or received on one digital Arming Station are echoed by every digital Arming Station in the system. Up to five Arming Stations may be wired in parallel with a maximum wire run of 400 feet.

A remote LED display other than a digital arming station cannot be used in the same 8112 system as a digital arming station.

