

ASI Annunciator R3.7 Quick Start Guide

- SUPV RELAY (RLY1):**
Connect one side of the SUPV RELAY (RLY1) on the Annunciator to AES Radio zone Z7 with an AES-supplied EOL Resistor. Connect the other side of RLY1 to the G terminal on the AES Radio Zone.
- AUX POWER (RLY2): If powering a Smoke Detector with EOLR Power Supervision Module:**
Connect the Smoke Detector Zone to an AES Radio Zone through the EOLR Power Supervision Module. Connect the Smoke Detector Power (and EOLR Power Supervision Module) to the AUX Power (-) and (NC+) terminals.
- AUX POWER (RLY2): If triggering an FCPS-24FS Remote Power Supply AUX Reset Input:**
Connect AUX POWER (RLY2) (NO+) and (-) to FCPS-24FS Control Input #2 IN+ and IN-.
- ALARM Output (ALM1): If triggering an FCPS-24FS Remote Power Supply Alarm Input:**
Connect Alarm Output (ALM1) (+) and (-) to FCPS-24FS Control Input #1 (alarm trigger) IN1+ and IN1- .
Optionally, *enable Open/Short Supervision Programming Mode.*
- 7788F's J4 Antenna Cut Supervision :**
 - Connect an EOL Resistor between radio zone Z8 and J4-C ommon (C)
 - Connect a wire between the Zone Ground (G) and J4-Normally Closed (NC)
 - Program the Zone as a Fire zone on the AES Radio
 - Set the *J4 Zone #* in Programming Mode to 8.
- Connect the Annunciator to the AES Radio with supplied 6P6C Flat cable.**
- Apply Power to AES Radio (Battery First).**

ASI Annunciator R3.7 Quick Start Guide

- SUPV RELAY (RLY1):**
Connect one side of the SUPV RELAY (RLY1) on the Annunciator to AES Radio zone Z7 with an AES-supplied EOL Resistor. Connect the other side of RLY1 to the G terminal on the AES Radio Zone.
- AUX POWER (RLY2): If powering a Smoke Detector with EOLR Power Supervision Module:**
Connect the Smoke Detector Zone to an AES Radio Zone through the EOLR Power Supervision Module. Connect the Smoke Detector Power (and EOLR Power Supervision Module) to the AUX Power (-) and (NC+) terminals.
- AUX POWER (RLY2): If triggering an FCPS-24FS Remote Power Supply AUX Reset Input:**
Connect AUX POWER (RLY2) (NO+) and (-) to FCPS-24FS Control Input #2 IN+ and IN-.
- ALARM Output (ALM1): If triggering an FCPS-24FS Remote Power Supply Alarm Input:**
Connect Alarm Output (ALM1) (+) and (-) to FCPS-24FS Control Input #1 (alarm trigger) IN1+ and IN1- .
Optionally, *enable Open/Short Supervision Programming Mode.*
- 7788F's J4 Antenna Cut Supervision :**
 - Connect an EOL Resistor between radio zone Z8 and J4-C ommon (C)
 - Connect a wire between the Zone Ground (G) and J4-Normally Closed (NC)
 - Program the Zone as a Fire zone on the AES Radio
 - Set the *J4 Zone #* in Programming Mode to 8.
- Connect the Annunciator to the AES Radio with supplied 6P6C Flat cable.**
- Apply Power to AES Radio (Battery First).**

Programming/Configuration Mode:

Connect PS2 Keyboard and Press Enter key:

Default Password is 1271

- * Set Display Text (Top Line Display during System Normal).
 - * Set Service Text (Top Line Display during Alarm or Trouble conditions).
 - * Set Zone Text (Zone Descriptions for zones 1 through 8 on AES Radio Zone Inputs).
 - * Auto-Silence System Troubles - turn On to Auto-silence System Trouble Sound if all system troubles have restored.
 - * Auto-Silence Zone Troubles - turn On to Auto-silence Zone Trouble Sound if all zone troubles have restored.
 - * Reminder Beep - Enable/Disable periodic reminder sounds for Zone/System Troubles/Alarms that have not restored.
 - * Alarm Output - Enable/Disable Supervision of an Open or Short condition of the Alarm Output.
 - * Antenna-Cut (J4) Zone - Zone # that the Antenna Cut Relay (J4) is connected to.
 - * Test Interval - Send a Periodic Test every xx Hours (00..99) (0 will disable the periodic test event). Default is 24 hours.
 - * Change Password - Password is not field-resettable so don't forget it.
 - * Restore Defaults - Reset all settings to factory default.
- Press Esc to Exit Configuration Mode.*

Keyboard Commands

[Enter] - Enter Programming Mode

[Esc] - Exit Programming Mode

[Enter] - change value of selected item

[spacebar] - Silence/Next

s - Turn ALL Sound OFF (Disables Piezo for Testing)

S - Turn Sound ON (Enables Piezo for Normal Operation)

F8 - Send Manual Test

F9 - Exit Programming Mode and Start Fire Drill

F10 - Reset Auxillary Power

F11 - Packet Monitoring Mode (Programming Mode Only)

F12 - Show Radio Status

Pause/Break - REBOOT

[up-arrow] - previous option

[down-arrow] - next option

Programming/Configuration Mode:

Connect PS2 Keyboard and Press Enter key:

Default Password is 1271

- * Set Display Text (Top Line Display during System Normal).
 - * Set Service Text (Top Line Display during Alarm or Trouble conditions).
 - * Set Zone Text (Zone Descriptions for zones 1 through 8 on AES Radio Zone Inputs).
 - * Auto-Silence System Troubles - turn On to Auto-silence System Trouble Sound if all system troubles have restored.
 - * Auto-Silence Zone Troubles - turn On to Auto-silence Zone Trouble Sound if all zone troubles have restored.
 - * Reminder Beep - Enable/Disable periodic reminder sounds for Zone/System Troubles/Alarms that have not restored.
 - * Alarm Output - Enable/Disable Supervision of an Open or Short condition of the Alarm Output.
 - * Antenna-Cut (J4) Zone - Zone # that the Antenna Cut Relay (J4) is connected to.
 - * Test Interval - Send a Periodic Test every xx Hours (00..99) (0 will disable the periodic test event). Default is 24 hours.
 - * Change Password - Password is not field-resettable so don't forget it.
 - * Restore Defaults - Reset all settings to factory default.
- Press Esc to Exit Configuration Mode.*

Keyboard Commands

[Enter] - Enter Programming Mode

[Esc] - Exit Programming Mode

[Enter] - change value of selected item

[spacebar] - Silence/Next

s - Turn ALL Sound OFF (Disables Piezo for Testing)

S - Turn Sound ON (Enables Piezo for Normal Operation)

F8 - Send Manual Test

F9 - Exit Programming Mode and Start Fire Drill

F10 - Reset Auxillary Power

F11 - Packet Monitoring Mode (Programming Mode Only)

F12 - Show Radio Status

Pause/Break - REBOOT

[up-arrow] - previous option

[down-arrow] - next option

ASI Annunciator R3.7 Installation

1. **SUPV RELAY:**
 - a. The Supervision Relay will always be energized unless the Annunciator fails to communicate with the AES Radio.
 - b. Connect one side of the SUPV RELAY (RLY1) on the Annunciator to an AES Radio Zone (Z7) with an AES-supplied EOL Resistor. Connect the other side of RLY1 to the G terminal on the AES Radio Zone. The Relay is Normally Closed during normal operation. During annunciator reset or failure, the relay will Open causing a Trouble signal on the radio hardwired Zone.
2. **AUX POWER:** Using a Smoke Detector:
 - a. The Annunciator can directly power ONE (1) smoke detector and EOLR power supervision module.
 - b. Connect the Smoke Detector Zone to an AES Radio Zone through the EOLR Power Supervision Module.
 - c. Connect the Smoke Detector Power (and EOLR Power Supervision Module) to the AUX Power (-) and (NC+) terminals.
3. **AUX POWER:** Triggering an FCPS-24FS Remote Power Supply AUX Reset Input
 - a. The AUX Power can also be used to provide a Reset signal to a remote power supply
 - b. Connect AUX POWER (RLY2) (NO+) and (-) to FCPS-24FS Control Input #2 IN+ and IN- (if you have and are configured for resettable devices on the FCPS).
4. **ALARM Output:** Triggering an FCPS-24FS Remote Power Supply Alarm Input
 - a. Connect Alarm Output (ALM1) (+) and (-) to FCPS-24FS Control Input #1 (alarm trigger) IN1+ and IN1- .
 - b. Enable Open/Short supervision in Programming Mode if necessary.
5. **J4 Antenna Cut Supervision:** Connect an EOL Resistor between a radio Zone (Z8) and J4-C ommon (C) and add a wire between the Zone Ground (G) and J4-Normally Closed (NC). Program the Zone as a Fire zone. Set the *J4 Zone #* in Programming to the Zone # (8) that you connected to J4. This will cause the annunciator to annunciate Comm Failure immediately when the Antenna Cut/System Trouble Relay is activated. When you set the *J4 Zone #* in programming, timer will be started when this zone is in alarm or trouble and a 381 event will be sent upon restoral indicating the number of minutes the zone was in failure in the contact-id Zone # field.
6. **FCPS Trouble Supervision:** Connect the FCPS's AUXTBL Relay (TB5) of the FCPS-24FS to an AES Radio Zone with EOL.
7. Connect Annunciator to AES Radio with supplied 6P6C Flat cable.
8. Apply Power to AES Radio (Battery First).

Connect a PS2 Keyboard and press ENTER for Configuration Mode:

- Default Password is 1271
- Set Display Text (Top Line Display during System Normal)
- Set Service Text (Top Line Display during Alarm or Trouble conditions)
- Set Zone Text (Zone Descriptions for zones 1 through 8 on AES Radio Zone Inputs)
- Auto-Silence System Troubles - turn On to Auto-silence System Trouble Sound if all system troubles have restored
- Auto-Silence Zone Troubles - turn On to Auto-silence Zone Trouble Sound if all zone troubles have restored
- Reminder Beep - turn On to enable periodic reminder sounds for pending Alarms and Zone/System Troubles that have been Silenced.
- Alarm Output - Enable/Disable Supervision of an Open or Short condition of the Alarm Output.
- Antenna-Cut (J4) Zone - Zone # that the Antenna Cut Relay (J4) is connected to.
- Test Interval - Send a Periodic Test every xx Hours (00..99) (0 will disable the periodic test event). Default is 24 hours.
- Change Password - Password is not field-resettable so don't forget it
- Press Esc to Exit Configuration Mode

PS2 Keyboard Commands

[Enter] - Enter Programming Mode
[Esc] - Exit Programming Mode
[Enter] - change value of selected item
[spacebar] - Silence/Next
s - Turn ALL Sound OFF (Disables Piezo for Testing)
S - Turn Sound ON (Enables Piezo for Normal Operation)
F8 - Send Manual Test
F9 - Exit Programming Mode and Start Fire Drill
F10 - Reset Auxillary Power
F11 - Packet Monitoring Mode (Programming Mode Only)
F12 - Show Radio Status
Pause/Break - REBOOT
[up-arrow] - previous option
[down-arrow] - next option

ASI Annunciator R3.7 Operation

Annunciator Buttons:

- **RESET** - Reset the Annunciator
- **RED (Silence/Next) Button** - Silence and/or Show Next Event
- **WHITE (DRILL) Button** - Hold for Fire Drill
- **BLUE (AUX RESET) Button** - Toggle Aux Reset Output for two Seconds
- **Hold RED+WHITE+BLUE Buttons** - Show Radio Diagnostic Information

Zone Alarm:

- Piezo will generate a continuous tone until silenced.
- Alarm Output will be active until silenced.

Zone Trouble:

- Piezo will Pulse (slow) until silenced.
- If Zone Trouble Auto Restore is enabled, then the trouble will auto-silence where there are no more pending zone troubles.

System Trouble:

- Piezo will Pulse (fast) until silenced.
- If System Trouble Auto Restore is enabled, then the trouble will auto-silence where there are no more pending system troubles.

Reminder Beep:

- Piezo will sound for five seconds depending on the pending condition.
- ALARM Reminder is every 15 seconds - Continuous Tone for 5 seconds
- Zone Trouble Reminder is every 60 seconds - Slow Pulse for 5 seconds
- System Trouble Reminder is every 60 seconds - Fast Pulse for 5 seconds

A/C Failure:

- LCD Backlight will be OFF or Flash during an A/C Power Failure to conserve battery power.
- Reminders will re-illuminate the display during the Reminder Beep.

System Timers:

- Program Mode Timeout if no key pressed in 5 minutes.
- Text Entry will Timeout with Esc after 30 seconds of no keypress.
- Zone Text Entry will Timeout after 30 seconds of no keypress.
- Confirm prompt for "Restore Defaults" will Timeout after 30 seconds with NO.
- Packet Monitoring will Timeout after 2 minutes of no keypress.
- Radio Diagnostics Monitoring will Timeout after 2 minutes of no keypress.
- Timer Display will Timeout after 60 seconds of nokeypress.

Keyboard Commands available during normal operation:

- CR - Enter Configuration Mode
- [spacebar] - Silence/Next
- s - Turn ALL Sound OFF (Disables Piezo and Alarm Output for Testing)
- S - Turn Sound ON (Enables Piezo and Alarm Output for Normal Operation)
- F2 - Reset Pending Trouble Events to Re-Alert (automatically occurs 24 hours after silence if troubles still exist)
- F8 - Send Manual Test
- F9 - Start Fire Drill
- F10 - Reset Auxilliary Power
- F12 - Show Radio Status
- Pause/Break - Reset the Annunciator

Events Received by the Monitoring Center:

- 305 - System Reset (power-up or reset)
- 323 - Aux Alarm Output Trouble (Alarm Output has a Short or Open condition)
- 381 - Loss of Super RF (reports duration of Comm Failure in Zone field in Minutes)
- 421 - Access Denied (wrong password entered for Configuration Mode)
- 601 - Manual Test (F8 key on Keyboard)
- 602 - Periodic Test (Automatically Generated daily Test)
- 604 - Fire Drill Started (Indicates a DRILL was initiated)
- 608 - Abnormal Test (sent instead of Periodic Test if Alarm or Trouble condition still exists)
- 627 - Programming Entered (Configuration Mode entered successfully)
- 628 - Programming Exited (Configuration Mode exited)
- 912 - Fire Alarm Silenced (Silence Button Pressed during a Fire Alarm or Fire Drill)

System Troubles indicated on Display:

- NETCONN 6 POOR - Radio has a NetConn 6 (NetConn 5 or less is required for UL Installation)
- NETCONN 7 FAIL - Radio has a NetConn 7 (NetConn 5 or less is required for UL Installation)
- RADIO COMM FAIL - Radio has No Top Peer (LinkLevel = 0) and can not send a signal to the monitoring center
- A/C FAILURE - Radio A/C Failure
- CHARGER FAILURE - Radio Charger Failure (contact AES)
- GROUND FAULT - Radio Ground-Fault Condition (Zone Ground terminal is less then .1 ohm to System/Earth Ground)
- BATTERY FAILURE - Radio Battery is Low
- RADIO RAM FAIL - Radio RAM Failure (contact AES)
- RADIO EEPROM BAD - Radio EEPROM Failure (contact AES)
- RADIO ADC FAIL - Radio ADC Failure (contact AES)
- RADIO LOOP FAIL - Radio Modem Loopback Failure (contact AES)
- INTERFACE FAIL - Annunciator is not getting valid data from Radio. Supv Relay is de-energized
- ALM OUT SHORT - ALM OUT OPEN - Alarm Output (ALM1) has a Short or Open condition