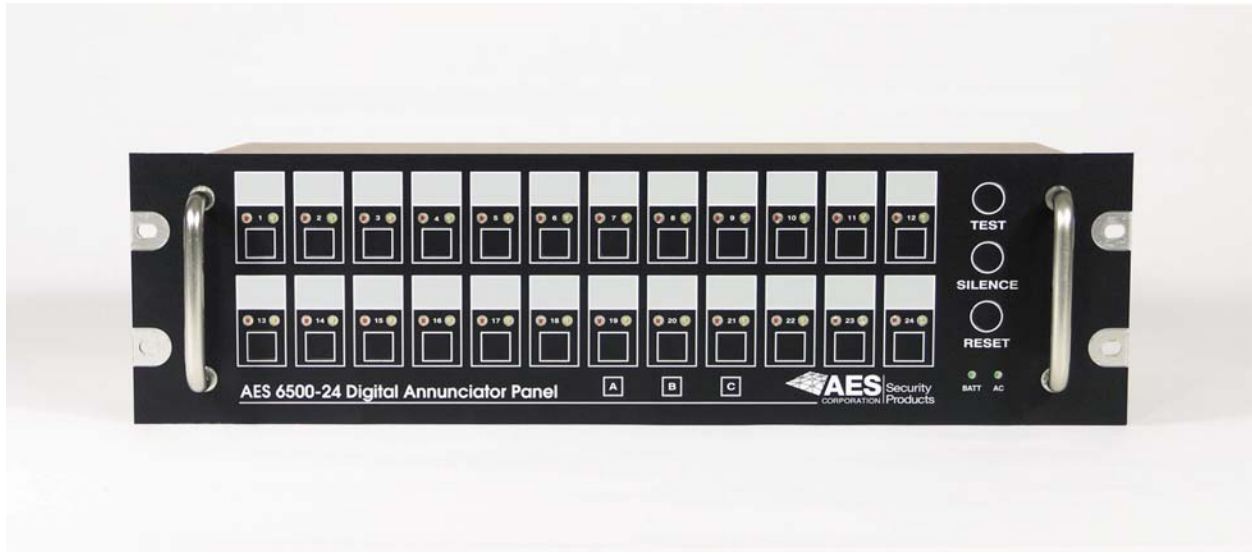


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# Technical Manual

## AES 6500 Digital Annunciator Panel



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# AES 6500-24 Digital Annunciator Panel

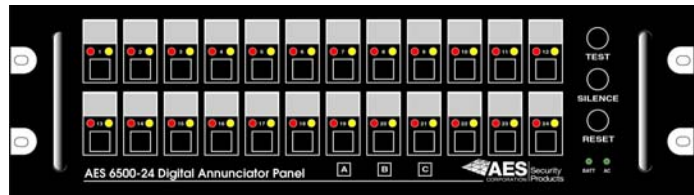
## Key Features and Benefits

**All events are recorded to a printer/data port, and to a log file.**

### More Security

The new “Advanced” mode provides more reporting and tamper monitoring.

Door status is displayed in both access and secure modes.



**Easy, Instant Upgrade: Work from the installed base of 630's and 6300's**

Use the existing wires, sensors and E.O.L. resistors. Just plug in the new unit!

## Summary of Features

- Provides an audible and visual annunciation of alarm status
- At-a-glance viewing of ALL 24 zones, ALL the time
- Allows operator to choose Access or Secure modes on a zone-by-zone basis
- Logs all events to printer and digital (computer) log file
- Enhanced Output Capabilities:
  - Printer / Serial ports, RS-232; RS-485 option; Ethernet connection option
- Sealed, rugged membrane keypad with recessed switches and lights
- Backward compatibility: uses existing zone wiring for AES 630, 6300 Series Annunciators
- Added line security in “Advanced” Mode to set parameters, retrieval of log files, and more
- Zone status annunciated even in Access mode
- User defined zone names for easy to review printouts and log files
- Easy Programming using any terminal program
- At-A-Glance viewing of status of ALL zones at any time
- NEW – “Night Mode” short cut puts all zones in Secure mode
- Operates on 110/220, 50~60Hz , switch selectable
- Includes rechargeable backup battery and battery charger
- Zone connector block uses fast cage-clamp connectors, and may be mounted remotely
- Convenient 19” rack mount case

## **i Safety Considerations**

- 1.** Installation of the AES 6500-24 Digital Annunciator Panel should be carried out by a qualified technician.
- 2.** Identify the incoming voltage, 110V or 220V that will power the 6500.
- 3.** Set the 110V / 220V input voltage selector inside the 6500 Annunciator to match the actual voltage being applied to the unit.
- 4.** Ensure that the wire supplying input electrical supply to the AES 6500 Unit is sized to carry the electrical load of the unit. Allow 3 amps per unit.
- 5.** Ensure that the unit is solidly connected to a verifiable earth ground.
- 6.** Ensure that the whole electrical installation is carried out in accordance with the National Electrical Code or the Electrical Regulations of the installation location whichever is the most stringent.

## **ii Environmental Considerations**

- 1.** The AES 6500 Annunciator must not be installed in locations subject to water, moisture saturated air, explosive atmospheres, dust laden atmosphere, or excessive heat or cold. The unit should be installed in a controlled climate area.
- 2.** The AES 6500 Annunciator is best suited for mounting in a 19" equipment rack. Allow access from the rear for connecting wires.

### iii. Specifications

#### a- Specifications for AES 6500 Annunciator Panel:

**Size:** 19”w x 5.25”h x 10”d (48.3 x 13.3 x 25.4 cm) (plus connectors); rack mount case

**Power:** 115 / 230 V, 50/60 Hz; internal voltage selector switch;

- Onboard switching regulated supply

**Backup Battery:** 12V, 4.5AH, lead acid gel type

- Battery condition tested; low battery reported to log, printer, and flashes “Battery” light
- Battery protection circuit, cut power before deep discharging battery

**Line Security:**

- “Standard”, 3 levels; Normal, Alarm Short, Alarm Open
- “Advanced”, 4 levels; Normal, Alarm, Trouble Short, Trouble Open

**Switches:**

- Access/Secure: 24, one for each zone;
  - Push button membrane switch;
  - Push-Toggle Switch
    - Access mode (yellow light ON) zone activity is shows on status light only; no sounder, and no record in is printed or logged
    - Secure mode (yellow light OFF) annunciates and records all events: alarm, restore, silence, reset
- Test Switch: Tests all zones lights and sounder by simulating an alarm
  - “Test” is printed to printer, but individual zone are not printed or logged
- Silence Switch: Shuts off audible signal; red alarm light stays on until zone is cleared and Rest button is press (memory mode)
  - Reset Switch: Resets all zones; Clears red light (memory mode)

**Night Mode Shortcut:** Puts alls zones in Secure mode

- Push A + C + Silence Buttons all at once

**Indicators:**

- Red Lights, 1 per zone: ON indicates an alarm condition; OFF indicates normal condition
  - Blinking light (50/50 on/off) indicates un-silenced alarm
  - Steady light indicates memory mode following silenced alarm, Reset clears steady light
  - Double Blink or Wink indicates trouble; reported in both Access and Secure Modes
- Yellow Lights, 1 per zone:
  - ON indicates a zone in Access Mode; OFF indicates zone in Secure Mode
- Green Lights
  - AC Power, ON = AC present; Blinking = AC Fail, OFF = Unit De-powered
  - Battery Power, ON = Battery OK; Blinking = Low Battery, OFF = Unit De-powered

iii. Specifications, continued

**Zone Inputs, 24 Individual Zones:**

- Choose Zone Mode:
  - Standard: Uses single 3.01K EOL resistor, reports alarm
  - Advanced: Uses two 3.01K resistors, reports alarm and line tamper
- Base unit has 50 pin connector; compatible with 6300-24-DSR annunciators
- Easy upgrade to existing 6300 series annunciator installations (zones in standard mode)
- Output board has cage clamp connector; may be remoted from panel, DIN mount
- Resistors: 2 per zone; 3.01 K ohm, 1%

**Processor:** 386 embedded micro; real time clock, DOS operating system

**Ports:**

- Terminal I/O Port (RS-485 option, future use)
- RS-232 Serial / Printer Port
- Network Interface (future use)

**Fuses:**

- AC Input 3 Amp
- Battery 3 Amp

**Printer Output:** Logs all events by zone and button push, with time and date.

- Alarms, Restorals reported for any zone in Secure Mode
- Line Trouble reported for any zone in Secure or Access Mode  
(zones must be programmed to advanced mode)

**Log:** Log of all events is captured on virtual drive in unit; may be retrieved in terminal mode.

**b. - Specifications for AES 6510 24 Zone Connector Block**

*One 6510 Connector Block is included with each 6500 Annunciator*

- Inputs: 24 pair cage-clamp connectors (no special tool needed)  
Dimensions: 6" W x 3.25" L / 15.3 cm W x 8 cm L  
Mounting: On rear of unit; or remote using DIN rail and clips  
(see Remote Kit below)

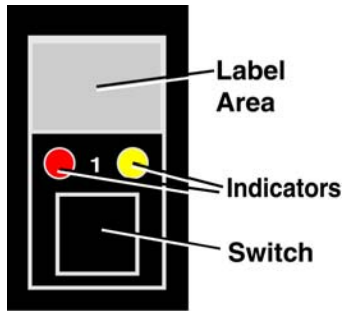
**c. - Accessories**

- **6511-KIT – Zone Board Remote Kit**, includes 50-conductor extension cable with mating connectors, DIN rail, clips and hardware. Connects 6300-24 or 6500 to remote 6510 Connector Block;
- **6519 - DIN Rail on 19" Panel**, for mounting up to 3 - 6510 Connector Blocks or other DIN mountable devices
- **50-0101- Printer**, 80 column, serial interface, 110V, also order 13-6500-PTR cable
- **13-6500-PTR – Null Printer Cable**

## AES 6500 Annunciator Installation

The AES 6500 must be mounted securely onto a solid structure. The device is designed to fit a standard 19" equipment rack. The shallow box design allows for use in rack cabinet that is as little 12" deep. The zone inputs are on a detachable board for ease of service.

## AES 6500 Annunciator Operation



### Front Panel Switch and Indicators – Illustration 1

- **24 Zones**, each with a Red and Yellow Indicator LED's for at-a-glance status of all zones and any time.
- **Zone Switch.** Push toggles between access and secure mode
- **Red LED** indicates zone condition,
- **Yellow LED** indicates Access Status (On=Access, Off=Secure).

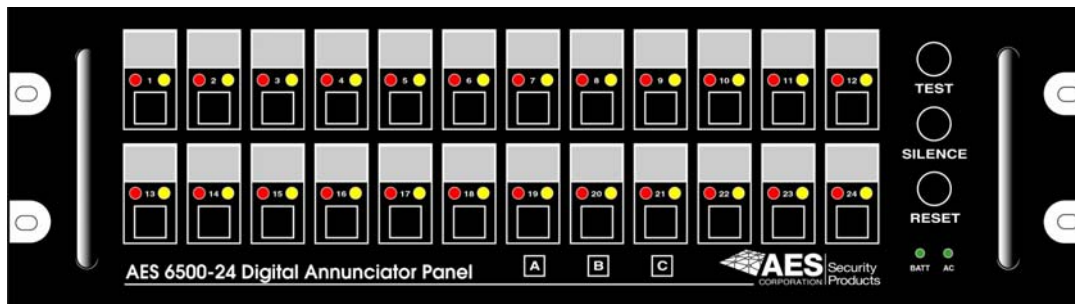
- **Blink Codes** provide additional information:

#### Alarms:

- Steady Blink Indicates Zone in Alarm
- Steady On Indicates Alarm Memory, after Zone Silenced

#### Trouble/Tamper (Advanced Mode Only):

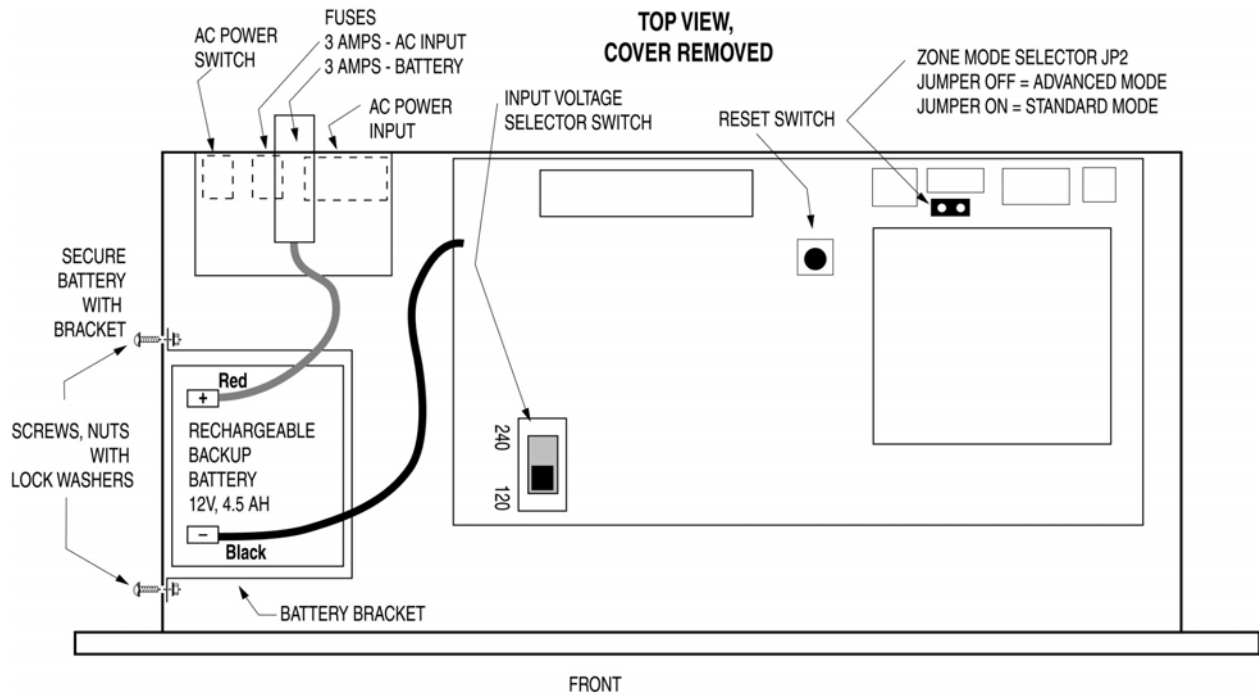
- Fast/Double Blink Indicates Zone in Tamper/Trouble in Secure Mode
- Short “Wink” Indicates Zone in Tamper/Trouble in Access Mode



### Front Panel – Illustration 2

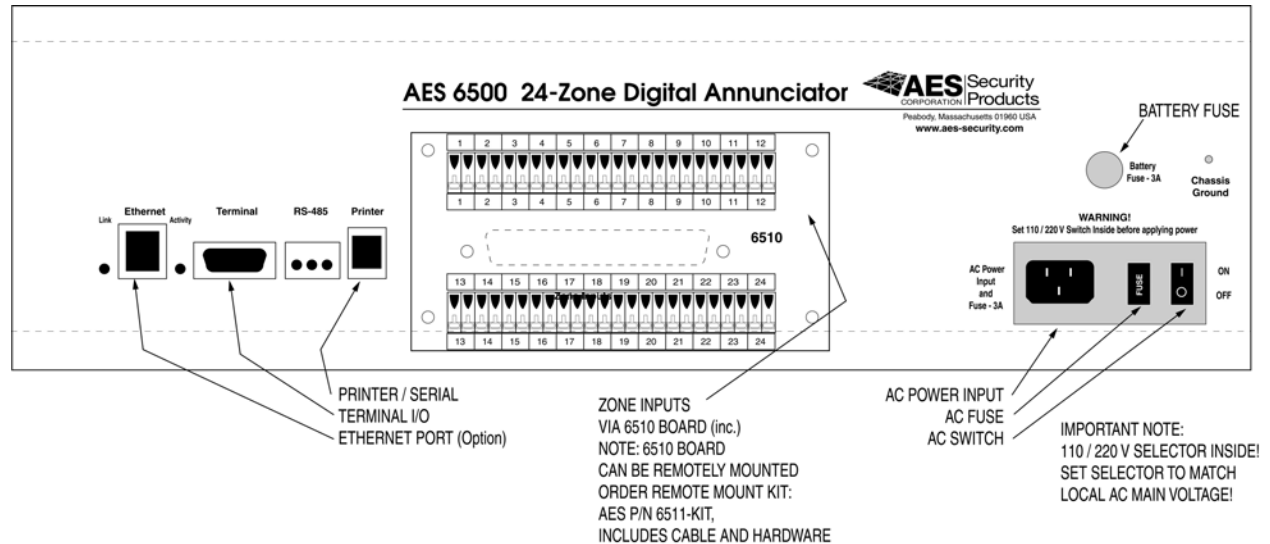
- **Test Switch** trips all 24 zones; test flashes all LED's and beeper. Press Silence then Reset to exit Test sequence (Test is logged/printed, but not as alarm)
- **Silence Switch** silences the beeper after an event.
- **Reset Switch** clears all memory lights. Note that if a zone was silenced but is still in alarm, a new alarm will sound after Reset is pushed.
- **Power LED** indicates that power (AC or battery) is on.
- **A, B and C switches** are for advanced programming functions, including:
  - **Night Mode Shortcut:** Pushing and hold A + C + Silence buttons sets all zones to **Secure**
- **Beeper / Sounder** is activated when:
  - A "Secure" zone is alarmed or tampered,
  - An “Access” zone is tampered
  - A Zone is switched from Secure to Access Mode
  - Pushing the Silence button quiets the beeper.

### Inside the 6500 Annunciator – Illustration 3



- Set 120/240Volt selector switch to match local power source.
- Install 12V, 4.5AH battery; use bracket to secure it to the case.
- Connect battery leads: Red to Plus, Black to Negative.

### Rear Panel – Illustration 4



- Connect line cord / AC input to socket provided
- Connect Zone Inputs as noted on next page



## Zone Inputs: Standard / Advanced Mode

The 6500 Annunciator zone inputs can operate in either Advanced or Standard Modes:

- **Standard mode**, the input uses 1 EOL resistor  
3.01K = Normal  
Open = Alarm  
Short = Alarm
- **Advanced mode**, the input uses 2 resistors – one at end of line, one across the Normally Closed sensor  
3.01K = Normal,  
6.02K = Alarm  
Open = Trouble (tamper)  
Short – Trouble (tamper)

### To set Zone Mode:

- Remove AC power from unit
- Remove top cover
- Disconnect battery
- Locate jumper J2 (see illustration 3)
- Set jumper position accordingly:
  - Jumper ON = Standard Zone Mode
  - Jumper OFF = Advanced Zone Mode
- Reconnect battery, reassemble case, and restore power.

## AES 6500 Typical Zone Wiring

Illustration 5

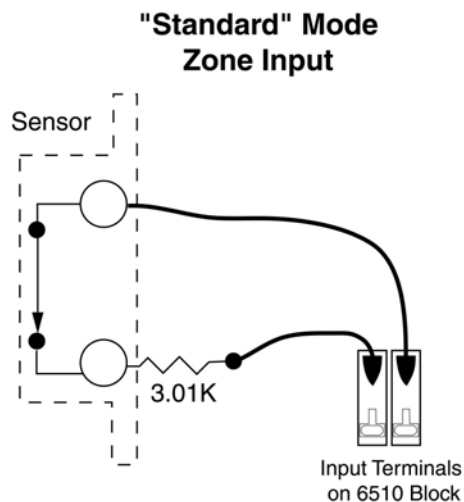
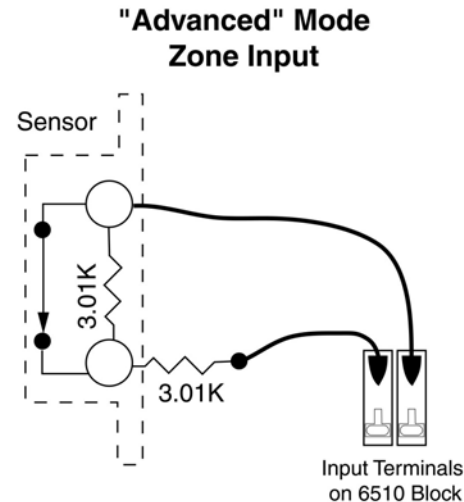
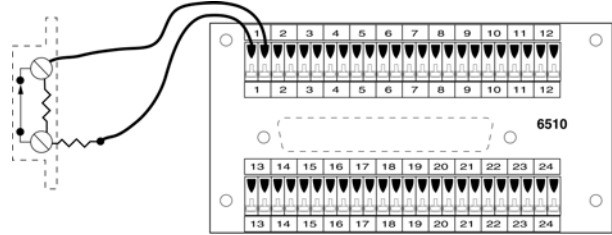


Illustration 6



## Zone Inputs / AES 6510 Connector Block – Illustration 7

Shown: Advanced Mode wiring of Normally Closed Contact. (Note 2 resistors are used. Note that the 6500 unit must be set to advanced mode for this configuration –see preceding section.)



- The cage-clamp connectors provide quick, secure connections of zone wiring, without special tools. To open the compression cage, use any small screwdriver to push the lever down (back); insert the wire while holding the lever back, then release the lever.

## Remote Mounting of the 6510 Connector Board

- The 6510 connector block can be remotely located using the optional remote mount kit, #6511-KIT. The kit includes a 50-conductor cable with mating connectors, DIN rail, clips and hardware. To remove the 6510 block from the 6500, refer to illustrations below.

Illustration 8 –Shows screws to be removed to separate the 6510 connector board from the 6500.

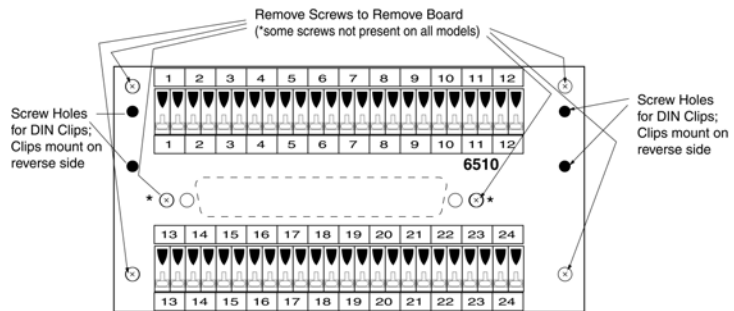
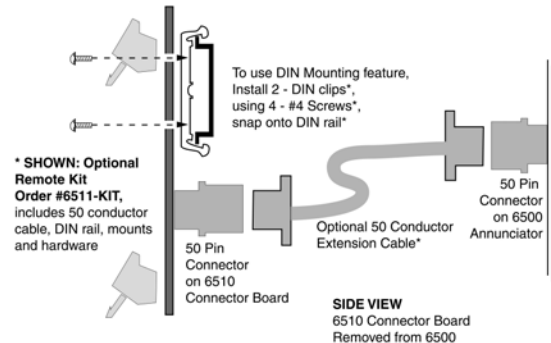


Illustration 9 – Shows side view of 6510 connector board, using the optional remote mount kit (P/N 6511-KIT). Illustration shows location of DIN clips (2 clips, 1 shown). and 50-conductor cable to connect 6500 to remote 6510 terminal block.



## **Serial Data / Printer Port**

- All activity is logged to this data port, including:
  - Time
  - Date
  - Zone Number
  - Zone Description (User Defined)
  - Zone Event Type
    - Alarm
    - Restore (after sensor returns to normal)
    - Open or Short (Tamper/Trouble)
  - Acknowledgement / Silence Button Push
  - Reset Button Push
  - Night Mode 3-Button Push (A+C+Silence)
- In Secure Mode, All sensor activity is printed
- In Access Mode, sensor activity is not printed (status lights operate, but no data is logged)
- In Secure or Access Mode, Line Open or Short (Tamper /Trouble) is printed
  - Note – system must be operating in “Advanced” Mode to report Tamper messages
- A special serial cable, with a 25 pin connector and an RJ11 connectors, is provided with the 6500 panel. Connect the serial cable provided to the RJ11 socket marked “Printer”. This can be connected to a data transfer device (e.g. Lantronix serial to LAN).

(To connect a printer, a null modem cable is need; see section below.)

The default setting for the printer serial port is:

9,600 N, 8, 1

- Baud rate: 9,600
- Parity=None,
- Data Bits = 8,
- Stop Bits=1
- ANSI mode

These are the default settings. Although these settings are adjustable, it is strongly recommended that you retain the original settings.

## **Using a Serial Printer**

The output can drive an 80 Column, Serial Input Printer. Order AES Printer P/N 50-0101.

The cable provided is intended for use with a data transfer device, not a printer. If you wish to output the data to a printer, order 6500 Null Printer Cable P/N 13-6500-PTR.

## Serial Terminal I/O Port

The 6500 has an RS-232 serial port that provides

- Programming access
- Viewing of Zone Status and System Settings
- Access to virtual drive on the embedded PC, for file transfer and setup.

The serial port is set as follows:

9,600 N, 8, 1

- Baud rate: 9,600
- Parity=None
- Data Bits = 8
- Stop Bits=1
- ANSI mode

These are the default settings. Although these settings are adjustable, it is strongly recommended that you retain the original settings.

This port can be accessed using any terminal program, such as HyperTerminal included with many Windows™ products. Connect a serial cable with a mating 9 pin connector to the DB-9 connector marked “Terminal”. A serial cable is included with the 6500, AES P/N 13-0355.

## Terminal Access to Onboard Computer; System Startup

On a separate computer, with a COM port and with the terminal program running, you can access the “C:” drive of the 6500’s embedded PC.

Push the reset button on the 6500 main circuit board. The terminal screen will display the following:

```
Will Run "6500" in 3 Seconds.  
Type X to Terminate Auto Startup Without Watchdog
```

Type **X** to cancel the bootup. The C: prompt will be displayed.

```
C:\>
```

Enter the DIR command to view the files on virtual drive C.

(Note: This procedure interrupts the startup. The 6500 Annunciator functions are NOT functional until the program is started.)

```
C:\>DIR  
Volume:      None                               Dir C:\  
STARTUP .BAT      size DD-MMM-YY HH:MM   6500 .BIN      size DD-MMM-YY HH:MM  
6500 .BIN      size DD-MMM-YY HH:MM   6500 .LOG      size DD-MMM-YY HH:MM  
6500 .EXE      size DD-MMM-YY HH:MM   6500 .001      size DD-MMM-YY HH:MM
```

From here you can access the log file 6500.001, which can be copied to your PC using a file transfer such as xmodem.

## About Event Logs

There are 2 event logs kept on the virtual hard drive, 1 active, 1 backup:

- 6500.log is the active log
- 6500.001 (###) is the last-saved log

The saved log is created when either the file size becomes too big, or when the “Rotate Log” command is used in the terminal. Only the active log and ONE last-saved file are kept on the drive. Whenever a new saved log file is created, and existing saved log file is erased.

To display log is a simple text file, which can be viewed with any editor.

**To restart the annunciator**, press the reset button on the main board and do not type the X interrupt. Or type “start65” at the C:> prompt.

## About Checksum

To detect tampering of the main program, the 6500 unit performs a checksum self-test to assure the authenticity of the core file. Watching to boot up of the unit on a terminal, you will see the checksum function in operation.

If a change is detected (i.e. checksum fails), an error message is displayed to the printer and the log file. The program continues to operate, but operators should investigate the problem.

## Setup Functions

Once the program is running and the 6500 Annunciator is operating, you can access the setup functions using the terminal mode. The annunciator must be running, and you must have a separate computer running in terminal mode, as described above.

Press the enter key on the terminal to generate a password query:

```
ENTER PASSWORD: *****
```

```
[DEFAULT PASSWORD IS AES6500]
```

Once the correct password is entered, the setup menu display appears.

## Setup Menu Display

The setup functions allow an operator to configure the annunciator panel

### 1, Setup Menu

```
Set Unit ID (0001)                               Display System Info
Set Serial Printer Port Parameters (9600, N, 8, 1, FlowControl:None)
Set Console Port Parameters (9600, N, 8, 1, FlowControl:None)
Set Time (HH:MM:SS)                               Set Date (MM/DD/YY)
Change Password
Display Log                                       Rotate Log
Set Zone Descriptions:
1 Main Entry Door           9 Office 101                17 Rear Fire Door
2 Gate 1                    10 Office 103               18 Panic-Meeting Room
3 Man Trap                  11 Office 105               19 Coffee Ready
4 Gate 2                    12 Office 107               20 Panic-DCM
5 Main Entry Point         13 Motion-2nd Flr East     21 Panic-AMB
6 WT Metal Detector        14 Motion-2nd Flr West     22 Panic-RSO
7 Gate 3                   15 Motion-Stairs-3East    23 Tamper-SIC
8 Post 1 Tamper            16 Motion-Stairs-4East    24 Roof Door
Enter Selection: U,S,C,T,D,P,Z,R,L,I or Q to Quit Setup
```

## Display Information / System Status

This powerful function gives a snapshot of the current status of the annunciator panel, including :

- Unit ID
- Software version
- Zone mode (advanced or standard)
- Setup parameters
- Onboard time and date
- Number of buffered printer lines (unit buffers data when printer is offline or not present),
- AC power status
- Current state of all zones
  - \* after the zone number indicates zone is in access mode
  - Zone states include Normal, Alarm, Shorted, and Open

### • Type “I”

The terminal displays the information:

```
6500 ID: 0001 Version V0.04, Zone Mode Advanced
My Time = Wed Apr 14 17:17:38 2004
Printer Online Lines Buffered 0
System AC Input OK, Battery OK.

Note: * = Access Mode Set

Zone 1 * Shorted      Zone 9 * Normal      Zone 17 * Normal
Zone 2 * Shorted      Zone 10 * Normal     Zone 18 * Normal
Zone 3 * Normal       Zone 11 * Normal     Zone 19 * Normal
Zone 4 * Normal       Zone 12 * Normal     Zone 20 * Normal
Zone 5 Normal        Zone 13 Normal       Zone 21 Normal
Zone 6 Normal        Zone 14 Normal       Zone 22 Normal
Zone 7 Normal        Zone 15 Normal       Zone 23 Normal
Zone 8 Normal        Zone 16 Normal       Zone 24 Normal

Press Enter to Continue
```

Press enter to return to Setup Menu Display.

## Change Unit ID

- **Type “U”**. The program displays the current Unit ID and asks you to confirm (Y/N) if you want to change the ID. Enter Y for Yes. Enter the new unit ID when prompted.

```
Enter Selection: U,S,C,T,D,P,Z,R,L,I or Q to Quit Setup
```

```
U  
Current Unit ID = ####, Change Y/N: Y  
Enter the 4 Character Unit ID: ####
```

Press enter after typing unit ID to save the data and return to the setup menu.

## Set Time

- **Type “T”** to set the local time for this annunciator. Answer “Y” when asked Set Time?. Enter local Hour, 0-24, then Enter; Enter Minutes 0-60, then Enter,; then enter Seconds, 0-60, Press enter after typing seconds to save the data and return to the setup menu.

```
Enter Selection: U,S,C,T,D,P,Z,R,L,I or Q to Quit Setup
```

```
T  
Set Time Y/N: Y  
Enter Local Time Hour in (0 .. 23): 17  
Enter Local Time Minutes in (0 .. 59): 35  
Enter Local Time Seconds in (0 .. 59): 00
```

## Set Date

- **Type “D”** to change the date.

```
Enter Selection: U,S,C,T,D,P,Z,R,L,I or Q to Quit Setup
```

```
D  
Set Date Y/N: Y  
Enter Year (2004 .. ): 2005  
Enter Month in (1 .. 12): 4  
Enter Day (1 .. 31): 14
```

Press enter after typing day to save the data and return to the setup menu.



## Change Password

**CAUTION:** Make a record of your new password - there are no remedies for a lost password, i.e. the unit must be returned for service before the password protected functions can be restored.

The password may include numbers or letters. You will be prompted to enter the password 2 times to assure accuracy.

- Type “P” to change the password:

```
Enter Selection: U,S,C,T,D,P,Z,R,L,I or Q to Quit Setup
P
Change Password Y/N: Y
Enter Current Password: *****
Enter New Password: *****
Re-Enter New Password:*****
```

## Display Log

You can view the active log using this function.

- Type “L” to display log:

```
Enter Selection: U,S,C,T,D,P,Z,R,L,I or Q to Quit Setup
L

#0001, Z09, Office 101          , Access Set      , 17:38:33, 04/14/05
#0001, Z10, Office 103          , Access Set      , 17:38:33, 04/14/05
#0001, Z11, Office 105          , Access Set      , 17:38:33, 04/14/05
#0001, Z12, Office 107          , Access Set      , 17:38:33, 04/14/05
#0001, Z12, Office 107          , Secure Set      , 17:38:48, 04/14/05
#0001, Z11, Office 105          , Secure Set      , 17:38:48, 04/14/05
#0001, Z10, Office 103          , Secure Set      , 17:38:50, 04/14/05
#0001, Z09, Office 101          , Secure Set      , 17:38:52, 04/14/05
#0001, Z20, Panic-DCM          , Secure Set      , 17:38:54, 04/14/05
#0001, Z19, Coffee Ready        , Secure Set      , 17:38:55, 04/14/05
#0001, Z18, Panic-Meeting Room , Secure Set      , 17:38:57, 04/14/05
#0001, Z17, Rear Fire Door      , Secure Set      , 17:38:57, 04/14/05
```

Prompts to continue to display log sequentially; ESCAPE stops display,

At end of file, this message appears:

```
Press Enter to Return to Menu
```

## Change Serial Printer Port Parameters

CAUTION! Entering incorrect data will cause the port to stop working!  
Set port settings to match device you are connecting to.

Default Settings:

Baud Rate = 9600, Parity = N(none), Databits = 8, Stopbits = 1, FlowControl=None

- Type “S”

Each of the settings is addressed separately. To change settings, enter **bold** commands as shown.

```
CHANGE Serial Printer Port Parameters (9600, N, 8, 1)
```

```
S <enter>
```

```
Enter Console Baudrate, Parity, Databits, Stopbits, FlowControl: B <enter>
```

```
Enter Console Baudrate in (1200 . . 19200): 9600 <enter> (screen resets)
```

```
S <enter>
```

```
Enter Console Baudrate, Parity, Databits, Stopbits, FlowControl: P <enter>
```

```
(scrn resets)
```

```
Enter Console Parity in (N,O,E): N <enter>
```

```
S <enter>
```

```
Enter Console Baudrate, Parity, Databits, Stopbits, FlowControl: D <enter>
```

```
Enter Console Databits in (7, or ,8): 8 <enter> (screen resets)
```

```
S <enter>
```

```
Enter Console Baudrate, Parity, Databits, Stopbits, FlowControl: S <enter>
```

```
Enter Console Stopbits in (1, or ,2): 1 <enter> (screen resets)
```

```
S <enter>
```

```
Enter Console Baudrate, Parity, Databits, Stopbits, FlowControl: F <enter>
```

```
Enter Flow Control (Y/N): N <enter> (screen resets)
```

## Change Terminal (Console) I/O Port Parameters

**CAUTION! Entering incorrect data will cause the console port to STOP working!  
It is strongly recommended that you do NOT CHANGE THESE SETTINGS!**

Set port settings to match console / terminal parameters.

Default Settings: Baud Rate = 9600, Parity = N(none), Databits = 8, Stopbits = 1

Each of the settings is addressed separately. To change settings, enter **bold** commands as shown.

```
CHANGE Console Port Parameters (9600, N, 8, 1) (current settings shown)

C <enter>

S <enter>
Enter LPT Baudrate, Parity, Databits, Stopbits, FlowControl: B <enter>
Enter LPT Baudrate in (1200 . . 19200): 9600 <enter> (screen resets)

S <enter>
Enter LPT Baudrate, Parity, Databits, Stopbits, FlowControl: P <enter>
Enter LPT Parity in (N,O,E): N <enter> (scrn resets)

S <enter>
Enter LPT Baudrate, Parity, Databits, Stopbits, FlowControl: D <enter>
Enter LPT Databits in (7, or ,8): 8 <enter> (screen resets)

S <enter>
Enter LPT Baudrate, Parity, Databits, Stopbits, FlowControl: S <enter>
Enter LPT Stopbits in (1, or ,2): 1 <enter> (screen resets)

S <enter>
Enter LPT Baudrate, Parity, Databits, Stopbits, FlowControl: F <enter>
Enter LPT Flow Control (Y/N): N <enter> (screen resets)
```

## Set Zone Descriptions

A 25 character description can be entered for each zone. The description is displayed in the log and on the printer output. The default settings are blank – no data is shown. (The zone number is always displayed in the log and on the printer output.)

- Type “Z” to change the zones

```
Enter Selection: U,S,C,T,D,P,Z,R,L,I, or Quit Setup
```

Z

```
Enter Zone Number to Change. Else 99 to Exit: 07
```

```
Zone 7 Description: Gate 3 . Change Y/N: Y
```

```
Enter New Description for Zone 7: New Gate 3
```

```
Enter Zone Number to Change. Else 99 to Exit: 99
```

Screen refreshes, the new zone data is displayed:

```
Unit 0001, Setup Menu
```

```
Set Unit ID (0001)                Display System Info
Set Serial Printer Port Parameters (9600, N, 8, 1)
Set Console Port Parameters (9600, N, 8, 1)
Set Time (15:38:32)                Set Date (04/27/04)
Change Password
Display Log                        Rotate Log
Set Zone Descriptions:
1 Main Entry Door                 9 Office 101                    17 Rear Fire Door
2 Gate 1                          10 Office 103                   18 Panic-Meeting Room
3 Man Trap                        11 Office 105                   19 Coffee Ready
4 Gate 2                          12 Office 107                   20 Panic-DCM
5 Side Entry Door                 13 Motion-2nd Flr East          21 Panic-AMB
6 WT Metal Detector               14 Motion-2nd Flr West          22 Panic-RSO
7 New Gate 3                     15 Motion-Stairs-3East         23 Tamper-SIC
8 Post 1 Tamper                   16 Motion-Hallway              24 Roof Door
Enter Selection: U,S,C,T,D,P,Z,R,L,I, or Quit Setup
```

## Maintenance

Provided the AES 6500 Annunciator is installed and operated as instructed, the unit will serve for many years. However it is strongly advised that a monthly service schedule be initiated. This schedule to include, but not limited to:

1. Check input voltage.
2. Check battery.
3. Check battery charge voltage – should be 13.8 VDC.
4. Clear away any build up of dust or dirt.
5. Check for any signs of damaged wiring or components.

## Troubleshooting

1. Main power indicating light blinking / not working.
  - Check incoming voltage.
  - Check that 3 amp fuse is OK (rear panel, at AC input)
  - Check that LED indicator is not burned out.
2. Zone reports tamper, yet sensor is normal
  - Unit is set to Advanced Mode; is this what you want?
  - Check Resistors are wired properly, refer to diagrams
  - Check wiring of zone: be sure that wires are connected to 6510 block
  - Check that 6510 connector block is seated properly on rear of unit
  - Check that 50-conductor cable connectors (if used) are fully seated

## Spare / Replacement Parts List for 6500 Annunciator

<b>P/N</b>	<b>Description</b>
6510	Connector Block
8124	12V, 4.5AH Battery
11-0614	3A Fuse, AC Main (5x20mm)
11-0603	3A Fuse, Battery (in-line)
75-6500	Face Plate Assembly with Switches, LED's
13-6500-L	Serial Cable (RJ-11 to DB25M)
13-6500-PTR	Null Serial / Printer Cable (RJ-11 to DB25M)
13-0355	Serial Cable / Terminal (Serial, DB9M to DB9F)

## Accessories Parts List for 6500 Annunciator

<b>P/N</b>	<b>Description</b>
56-0101	80 Column Printer, Serial and Parallel Inputs, Pin Feed, Dot Matrix
6511-KIT	Remote Connector Kit (cable, DIN rail, clips and hardware)

# AES ONE YEAR OWNER WARRANTY

We warrant AES products to be free from defects in material and workmanship for one (1) full year from date of purchase.

At no cost to the original purchaser for parts or labor, AES will repair or replace any part or parts which are judged defective under the terms of this Warranty.

Defective products must be returned to AES directly, provided they are properly packed, postage prepaid. Or exchange may be made through any authorized direct factory representative for any products which are judged defective under the terms of this Warranty.

This Warranty is in lieu of all other Warranties expressed or implied and of all other obligations or liabilities on the part of AES. This Warranty does not apply to any product or any part thereof which has been repaired or altered outside our factory in any way to affect its stability or reliability, or which has been subjected to misuse, negligence or accident, or which has had the serial number effaced or removed. Neither shall this Warranty apply to any product which has not been installed, applied or used in strict accordance with our instructions.

AES Corporation cannot be aware of, or responsible, for the differing values of property to be protected by its alarm reporting systems. The above Warranty is given in lieu of all other Warranties, either expressed or implied, including a Warranty of fitness for a particular purpose, and manufacturer shall not be liable for any defect, incidental or consequential, loss or damage arising out of the failure of the product to operate.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

**SERVICE PROCEDURE:** Contact AES Corporation at 978-535-7310 (fax 978-535-7313) to receive a Return Authorization Number. Have the AES part number and serial number ready. Items should be shipped freight prepaid c/o Repair Services, AES Corp, 285 Newbury Street, Peabody, Massachusetts 01960 USA. Authorized repair service is furnished only by AES Corporation.