Honeywell

ADEMCO 745VSD3
Voice Siren Driver

INSTALLATION AND SETUP GUIDE

FEATURES

- Generates siren as well as voice output in English, Spanish, and French.
- Separate messages for FIRE, BURGLARY, and Carbon Monoxide (CO) conditions.
- Separate siren sounds for FIRE, BURGLARY, and Carbon Monoxide conditions.
- Terminal strip for secure connection to control panel.
- Selectable input level (High/Low) for FIRE/BURGLARY/CO inputs.
- Supervision feature for speaker and speaker wiring.
- Compatible with 8 - 32 ohm speakers.
- Operates on 12-16V DC; 15mA standby current draw
- Small compact size for easy installation using double-sided tape provided – measures 4" x 2-3/4" x 1-3/4".

NOTE: 745VSD3 annunciates alarms in the following priority order: **FIRE, Carbon Monoxide (CO), Burglary.**

WIRING CONNECTIONS

IMPORTANT: 745VSD3 must be mounted in the control cabinet. Wiring connections to the terminals are as follows:

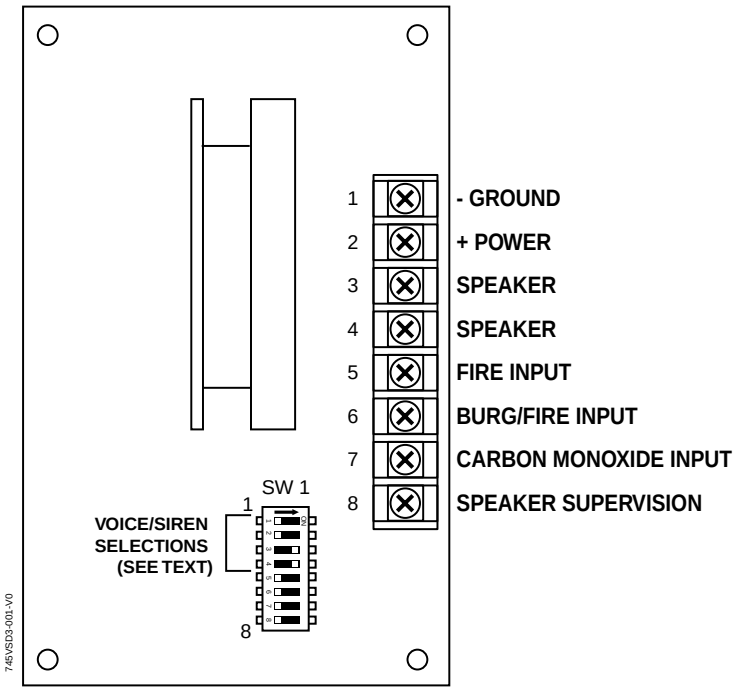


Figure 1: 745VSD3 Voice Siren Driver Circuit Board

TERMINAL DESCRIPTIONS

Term	Function	Notes
1 (-)	**GND(-) GROUND INPUT**	Connect to panel's aux power (-)
2 (+)	**12VDC(+) INPUT**	Connect to 12VDC (+) source on panel. *See "Fused Method for Providing Battery Power" on Page 3 if needed.*
3 SPKR 4 SPKR	**SPEAKER TERMINALS**	Connect 8- , 16- , or 32-ohm 15-watt speaker. See Figure 6 for multiple speaker configurations. *For Listed installations, Listed Ademco 705-820, 713, or 746-32 speakers must be used.*
5 F	**FIRE INPUT**	Connect the control panel's output designated as the FIRE (steady) output to this terminal (unless this output was connected to terminal 6).
6 B/F	**BURGLARY/ FIRE INPUT**	Connect the control's Burglary (steady) output to this terminal. This terminal may also be used to trip the Fire message (or siren sounds) with a Temporal Fire signal input. For these secondary uses, no connection to terminal 5 is required.
7 CO	**CARBON MONOXIDE INPUT**	Connect the control's output designated as the Carbon Monoxide output to this terminal.
8 SUPV	**SPEAKER/ WIRING SUPERVISION (OPTIONAL)**	To supervise speaker and associated wiring, connect to the high (+) side of a 24-hour zone that is activated by a short. Disconnecting or shorting either speaker terminal to ground will appear as a short on the zone. Note that in series-connected multiple speaker systems, cutting any speaker will trip the panel's supervision zone. In parallel-connected speaker systems, each branch must be cut before the control's supervision zone will trip. NOTE: Check the control's documentation for supervision compatibility (most Honeywell controls are compatible.)

WIRING FOR BURG/FIRE INSTALLATIONS

Refer to Terminal Descriptions on Page 1, and connect the panel bell output directly to the appropriate terminals.

1. ANNUNCIATING CO ALARM ON VISTA P Series *(21iP/20P/15P/10P, variants)*

a. Hookup

To achieve proper operation for Carbon Monoxide alarms with VISTA panels, configure the 745VSD3 for a negative (0V) trigger by setting DIP Switch 8 to OFF. On the panel, configure a low-going output (Trigger 17) to alert on CO alarm. Connect 745VSD3 as shown:

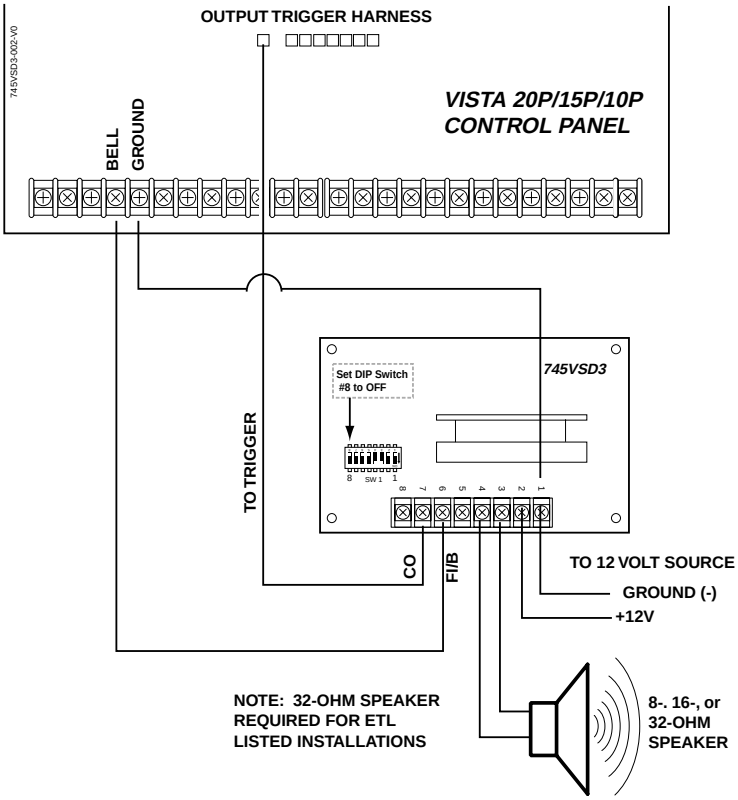


Figure 2: VISTA P Series CO Trigger Configuration

b. Programming Trigger Output (Vista P Series)

1. Enter panel's Program mode.
2. Select field *79
   - *79 Enter Output No (enter 17) *
   - 17 OUT Norm Low? (enter 0) *
3. Enter Output No (enter 00) exits out of *79 menu.
4. Enter *80 Output Function # menu programming mode.
5. Configure the first Output function for the following:
   - Activated by Zone type option selection (2)
   - Enter Zone Type (14) Carbon Monoxide
   - Output Action Stay Closed selection (2)
   - Output Number Select (17)
6. Configure the second Output function for the following:
   - Activated by Zone type option selection (2)
   - Enter Zone Type (22) Disarm
   - Output Action Off selection (0)
   - Output Number Select (17)
7. Exit the panel's Programming mode.

2. ANNUNCIATING CO ALARM ON VISTA-32, -128, -250 (and variants)

a. Hookup

If using a VISTA-32, -128, -250, or other variant that supports CO Zone Response Type 14: Configure 7845VSD3 for a positive (+12V) trigger by setting DIP Switch 8 to ON. On the panel, configure a relay output (4204/4101SN)) to alert on Zone Response Type 14. Connect 745VSD3 as shown:

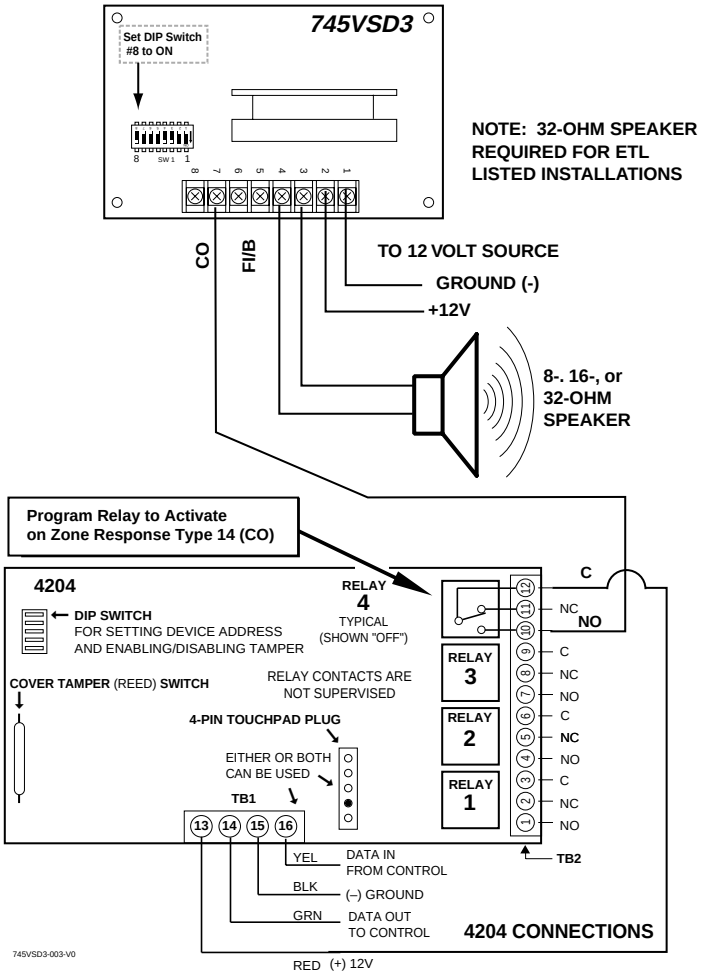


Figure 3: High End VISTA Configuration (4204 Relay shown)

b. Programming Output (High End Vista)

Refer to the diagram above, the terminal descriptions on Page 1, and the programming data for the panel and selected relay/output module to configure the activation and restore for Zone Response Type 14 (Carbon Monoxide).

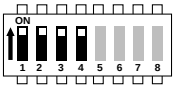
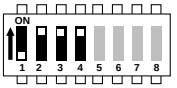
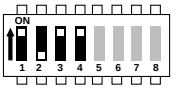
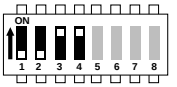
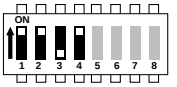
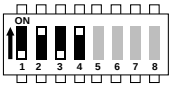
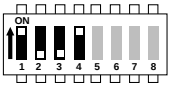
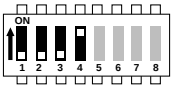
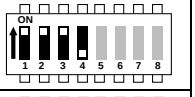
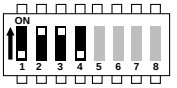
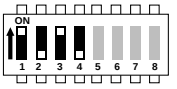
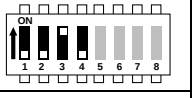
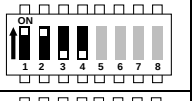
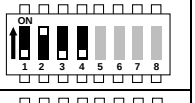
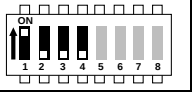
3. ANNUNCIATING CO ALARM ON ALL OTHER PANELS

Refer to the installation documentation for the control panel and to the "Terminal Descriptions" table on the previous page to properly connect and configure 745VSD3.

OUTPUT SELECTION SWITCH SETTINGS

8-Position DIP switch SW1 is used to select Voice/Siren outputs as well as bell/ringback and trigger options

1. Voice/Siren Outputs: SW1 Switches 1 - 4

	Fire Output	Burg Output	CO Output	DIP Setting
1*	English	English	English	
2*	English/ French	English/ French	English/ French	
3*	English/ Spanish	English/ Spanish	English/ Spanish	
4*	Eng/Span/ French	Eng/Span/ French	Eng/Span/ French	
5*	French	French	French	
6*	Spanish	Spanish	Spanish	
7	*Temporal Fire*	*Sweep*	*Temporal CO*	
8	*English*	*Sweep*	*English*	
9	*English/ French*	*Sweep*	*English/ French*	
10	*Temporal Fire*	*Eng/Span/ French*	*Temporal CO*	
11	*Temporal Fire*	*Spanish*	*Temporal CO*	
12	*Temporal Fire*	*English*	*Temporal CO*	
13	*English/ Spanish*	*Sweep*	*English/ Spanish*	
14	*Temporal Fire*	*French*	*Temporal CO*	
15	*Eng/Span/ French*	*Sweep*	*Eng/Span/ French*	

*** Most Commonly Used Settings**

2. Bell, Trigger Options: SW1 Switches 5-8

SW1 switches 5 through 8 set bell test and trigger options as shown.

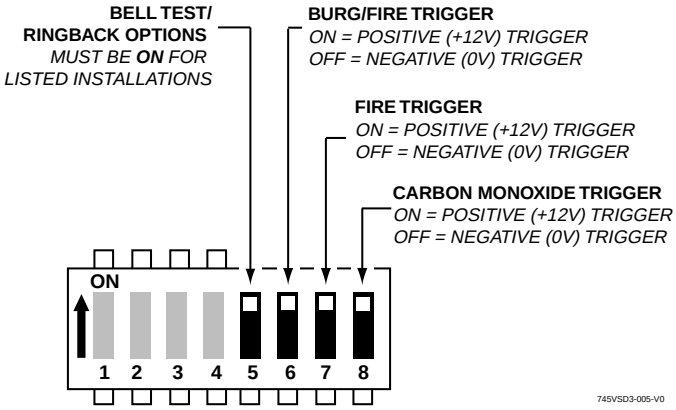


Figure 4. SW1 Switches 5 - 8

NOTE: If Bell Test/Ringback is selected (dip switch 5), a fire signal will momentarily generate a warbled siren sound for the initial portion of the siren sound and then revert to the normal siren sound and voice message.

Configuring Multiple Speakers

Depending on the installation, 745VSD3 provides multiple speaker configurations as shown:

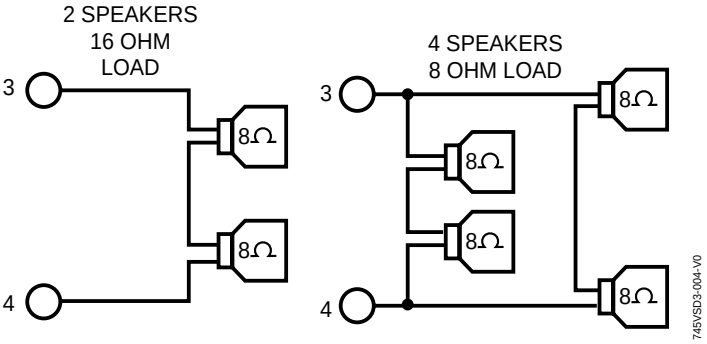


Figure 5. Typical Multiple Speaker Configurations

Fused Method for Providing Battery Power

For installations requiring more power than the panel aux power can provide (such as when using 8- or 16-ohm speakers) you may need to obtain additional power. You may obtain power from an external power supply, or through a fused connection directly to the control panel backup battery, as shown:

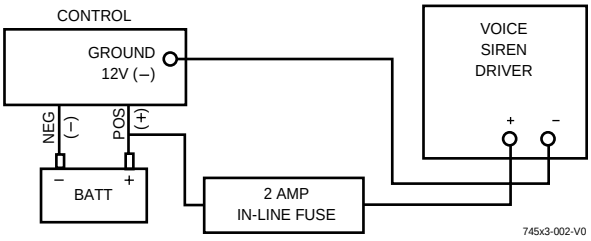


Figure 6. Connecting Power from the System's Battery

745VSD3 SPECIFICATIONS

Physical Specifications

Measurements: **4” x 2-3/4” x 1-3/4”**

Electrical Specifications

Voltage Requirements: **12-16 VDC**
Current (Standby): **15mA**

Speaker Specifications

Note: Use 8-ohm, 16-ohm, or 32-ohm, 15 watt speakers
8-ohm Speaker: **1400mA (max, steady siren)**
16-ohm Speaker: **1050mA (max, steady siren)**
32-ohm Speaker: **500mA (max, steady siren)**

WARRANTY INFORMATION

For the latest warranty information, please go to:
http://www.security.honeywell.com/hsc/resources/wa/index.html

REFER TO THE INSTALLATION INSTRUCTIONS FOR THE CONTROL PANEL THAT IS USED WITH THIS DEVICE FOR WARRANTY INFORMATION AND LIMITATIONS OF THE ENTIRE ALARM SYSTEM.

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