

DIGITAL FEEDBACK ELIMINATOR V-5335611

INTRODUCTION

The V-5335611 is designed to eliminate acoustic feedback. When a page is made, the message is digitized and saved. Upon completion of the live page, the message is released for broadcast over system speakers. (While this page is being broadcast, another page can be recorded). This eliminates the offensive squeal of feedback commonly produced by telephones or microphones when making a page.

SPECIFICATIONS

FEATURES

- Comes with Power Supply
- Automatic Gain Control (AGC)
- Adjustable VOX Sensitivity
- Two Input Channels:
Switch selectable for primary and priority or dual channels with equal priority
Both inputs are switch selectable for loop start (600 Ohms) or VOX activation
- Two Audio Outputs:
Loop Out (600 Ohms) to Page Controller
Line Level (8 Ohms) to Amplified Speakers or Amplifier
- Background Music Input (adjustable)
- Three Normally Open Output Relays:
Play, Record, Busy
- Four LED Indicators: Power On, Play, Record, and Busy
- Dip Switch Programmable
- Message Cancelling
- Easy to install in new or existing systems
- Solid State, DSP Storage and Playback
- High Fidelity CD Quality Sound Reproduction

Access

- Loop Start Trunk Port of PBX
- C. O. Line Position of Key System



- Page Port
- Line Level Audio Feed

Nominal Specifications

Input Impedance:	600 Ohms
Input Level:	-10 dBm
Loop Out Output Impedance:	600 Ohms
Line Level Output Impedance:	8 Ohms
Output Level:	-10 dBm (nominal)
VOX Sensitivity:	-20 dBm to -35 dBm
Release time after last sensed audio:	3 seconds
Maximum duration of recorded page:	60 seconds
Maximum number of stored pages:	
2 Primary/Priority Mode	
4 Call Stacker Mode	
Frequency Response:	
Page:	80 Hz to 7 kHz
Background Music:	50 Hz to 17 kHz

Nominal Power Requirements

-24VDC, 500mA, "B" Battery

Dimensions/Weight

- 10.3"H x 7.8"W x 2.2"D
(26.2cm x 19.8cm x 5.6cm)
- 2.6 lbs. (1.2 kg)

Environment

- Temperature: 0 to 40°C (32 to 104°F)
- Humidity: 0 to 85%

FCC Notice

This equipment has been tested and found to comply with the limits for Class A digital devices, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

INSTALLATION/CONNECTIONS

Cabling

It is recommended that Category 3 or 5 twisted pair telephone wire be used for all wiring connections to the V-5335611. A screw type connector strip is provided to allow connection of all wiring to the V-5335611.

Mounting

The V-5335611 is wall mountable using ½" screws.

Terminal Connection Access

NOTE: Remove the small right side panel to access all controls and terminations. To remove panel, loosen the two screws holding the panel in place and lift panel away from the board.

Audio Input

Line level or low level source. Do not connect to 70V or Voice-Coil audio output.

Setting Program Dip Switches

There are controls and switches on the board for programming the options of the V-5335611. Refer to **Figure 1** (page 5) for location of switches and controls.

(Tip1/Ring1)

Primary or Call Stacker Line 1 Input

The primary input is the path normally used to access the unit for recording and playback of a page.

Access Method	Switch Settings	
Loop Start Trunk Port	SW1 ON	SW4-1 OFF
Key System C.O. Line Key	SW1 ON	SW4-1 OFF
Stand Alone Telephone Set	SW1 ON	SW4-1 OFF
Page Port w/Contact Closure	SW1 OFF	SW4-1 OFF
Page Port w/o Cont. Closure	SW1 OFF	SW4-1 ON
Valcom Page Ctrl. Output	SW1 OFF	SW4-1 ON
V-5335700 (PagePal) Output using C.C.	SW1 OFF	SW4-1 ON

(Tip2/Ring2)

Priority or Call Stacker Line 2 Input

Priority access will override primary input activity.

Access Method	Switch Settings	
Loop Start Trunk Port	SW2 ON	SW4-2 OFF
Key System C.O. Line Key	SW2 ON	SW4-2 OFF
Stand Alone Telephone Set	SW2 ON	SW4-2 OFF
Page Port w/Contact Closure	SW2 OFF	SW4-2 OFF
Page Port w/o Cont. Closure	SW2 OFF	SW4-2 ON
Valcom Page Ctrl. Output	SW2 OFF	SW4-2 ON
V-5335700 (PagePal) Output using C.C.	SW2 OFF	SW4-2 ON

Control 1 Input (for Primary Port or Line 1)

Use External Dry Contact Closure to activate "Begin Recording" sequence. (Also see Note for SW4-3 Switch).

Control 2 Input (for Priority Port or Line 2)

Use External Dry Contact Closure to activate "Begin Recording" sequence. (Also see Note for SW4-3 Switch).

BGM Input

External low-level music source (Ex: V-2952).

Line Out

8 Ohm output connects to PagePac® Amplifier Inputs, Self-Amplified Valcom Speakers or other audio devices.

NOTE: Connect "Play" contact closure to C1 and Ground of amplifier when using PagePac® Amplifier. Set amplifier to Dry Loop 600 Ohms.

Loop Out

Connect to the telephone system input of a multi-zone controller, the 600 Ohm output connects to the PagePac® Plus Controller. Set controller to Loop Start.

R77 Adjustment Pot

Adjusts Background Music Output Level.

Abort

Option 1: To abort a message during "Play Sequence", use an External Contact Closure input to manually stop message broadcasting.

Option 2: To abort a message during "Record Sequence", press any number on the dial pad of the telephone.

Contact Closure Outputs (PLAY) PLYSW and PLYMK

Normally Open Contact Closure output that is closed while message plays.

(RECORD) RECSW and RECMK

Normally Open Contact Closure output that is closed while message records.

(BUSY) PRISW and PRIMK

Normally Open Contact Closure output that is closed when unit cannot accept any more pages.

All Dip Switches (OFF - Left) (ON - Right)

SW1: Primary Port or Line 1 Battery Feed

No battery feed supplied to primary port	OFF
Battery feed supplied to primary port	ON

SW2: Priority or Line 2 Port Battery Feed

No battery feed supplied to priority port	OFF
Battery feed supplied to priority port	ON

SW3 The 8-position dipswitch provides:

SW3-1: DTMF Signalling Options

No DTMF signal (single zone)	OFF
DTMF signal accepted (multi-zone)	ON

SW3-2, SW3-3: Number of digits to receive before recording announcement.

1 digit	SW3-2 OFF	SW3-3 OFF
2 digits	SW3-2 ON	SW3-3 OFF
3 digits	SW3-2 OFF	SW3-3 ON
4 digits	SW3-2 ON	SW3-3 ON

SW3-4: Priority Port Mode

Records primary and priority pages, priority page broadcasts first	OFF
Priority page broadcasts in real time. Primary page in progress is recorded and is broadcast after priority page.	ON

SW3-5: Message Playback Control

Play message once	OFF
Play message twice	ON

SW3-6, SW3-7: Pre-Page Alert Tones

No Tone	SW3-6 OFF	SW3-7 OFF
Single Tone	SW3-6 ON	SW3-7 OFF
Dual Tone	SW3-6 OFF	SW3-7 ON
Quad Tone	SW3-6 ON	SW3-7 ON

SW3-8: Inter-Page Timing

1 second between pages	OFF
3 seconds between pages	ON

SW4 The 4-position dipswitch provides:

SW4-1: Primary or Line 1 Page Access

Loop Detect	OFF
Audio Detect (VOX)	ON

SW4-2: Priority or Line 2 Page Access

Loop Detect	OFF
Audio Detect (VOX)	ON

SW4-3: Pre-Record Tone (Enable/Disable)

Normal (3 sec. delay of "Ready to Record" tone and "Recording Sequence")	OFF Enable
No tones are issued when "Recording Sequence" is activated. Allows immediate "Record Activation".	ON Disable

NOTE: This option is effective only when the input is set for Loop Detect (SW4-1 OFF).

SW4-4: Normal or Call Stacker Mode

2 Inputs - Primary and Priority	OFF
2 Inputs will function as Call Stacker	ON

Other Switches and Controls

SW5: VOX Sensitivity - sets threshold for detection of audio on the primary and priority ports. Turn clockwise to increase sensitivity.

SW5	LEVEL	SW5	LEVEL
0	-20dBm	8	-28dBm
1	-21dBm	9	-29dBm
2	-22dBm	A	-30dBm
3	-23dBm	B	-31dBm
4	-24dBm	C	-32dBm
5	-25dBm	D	-33dBm
6	-26dBm	E	-34dBm
7	-27dBm	F	-35dBm

LED Indicators

PLAY: Illuminates when announcement is playing.

RECORD: Illuminates during recording of the announcement.

BUSY: Illuminates if, for any reason the unit cannot accept any more pages.

POWER: Illuminates when -24VDC and GND is applied to the unit.

TECHNICAL ASSISTANCE

When calling, have a VOM and a telephone test set available and call from the job site. Call (540) 427-3900 and ask for PagePac Technical Support, or call (540) 427-6000 for Valcom 24-hour Automated Support or visit our websites at <http://www.pagepac.com> and www.valcom.com.

Should repairs be necessary, attach a tag to the unit clearly stating company name, address, phone number, contact person, and the nature of the problem. Send the unit to:

Valcom, Inc.
PagePac® Repair Dept.
5614 Hollins Road
Roanoke, VA 24019-5056

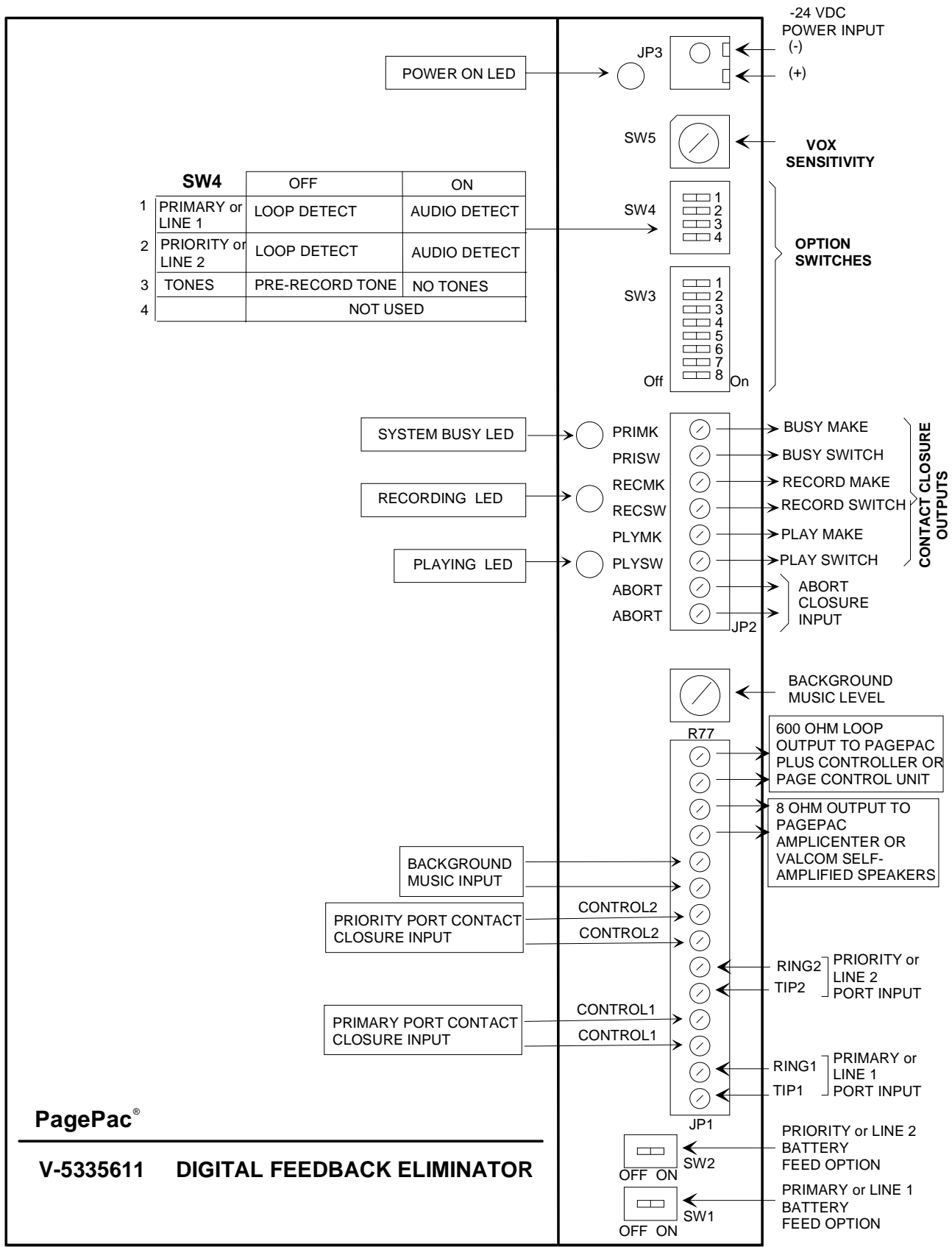
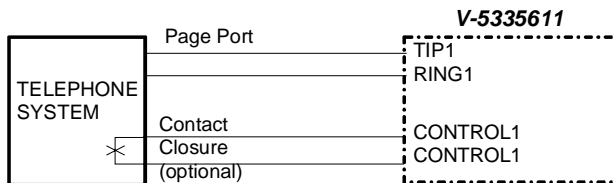


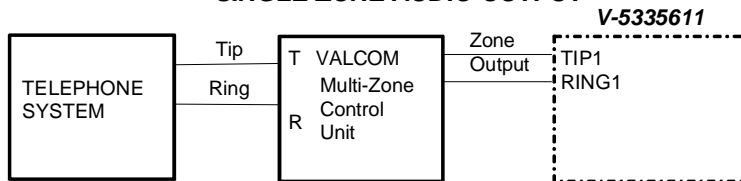
FIGURE 1: CONNECTIONS AND CONTROLS (ACCESSIBLE WITH SIDE PANEL REMOVED)

TYPICAL ACCESS CONFIGURATIONS

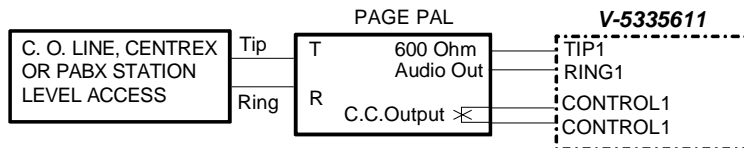
PAGE PORT ACCESS



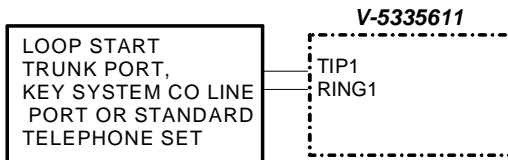
SINGLE ZONE AUDIO OUTPUT



STATION LEVEL ACCESS

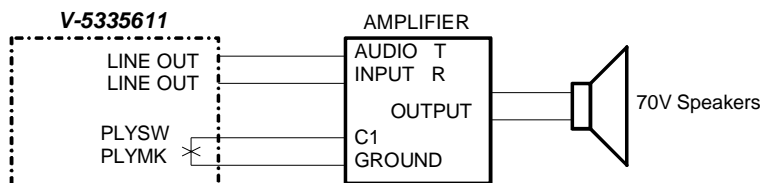


LOOP START ACCESS

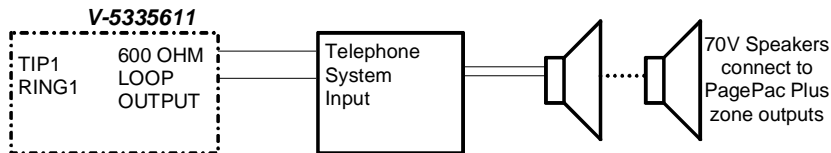


TYPICAL OUTPUT CONFIGURATIONS

PAGEPAC® AMPLICENTER



PAGEPAC® PLUS CONTROLLER



GENERIC AMPLIFIER ACCESS

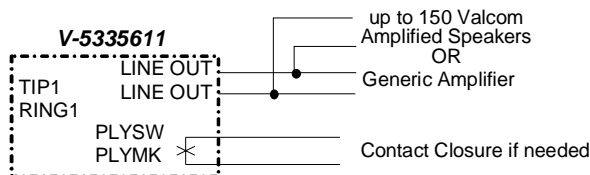


FIGURE 2 - SIMPLIFIED BLOCK DIAGRAM OF TYPICAL CONFIGURATIONS

(Power connections not shown)