

## V-9972 5ESS E & M PAGE ADAPTER

### **INTRODUCTION**

The V-9972 Page Adapter provides an interface for connection of a 5ESS E&M Port and Valcom Page Control Units. These instructions contain the specifications and information necessary to install, operate, and maintain the 5ESS Paging Adapter.

### **SPECIFICATIONS**

#### **Features**

- Volume Control
- Power on LED
- Background music input

#### **Nominal Specifications**

##### **Technical**

Tip and Ring Input	600 Ohm
Nominal	
Circuit Control E & M Type	
Voice Page Duration	0 to 124 seconds (Set by dip switch - 4 second increments)
Music Duration	0 to 210 seconds (Set by dip switch - 30 second increments)
Power Requirements	-48VDC @300mA
	(Filtered Talk Battery)

##### **Dimensions/Weight**

- 8.2"H x 4.68"W x 2.30"D  
(20.82cm H x 11.89cm W x 5.84cmD)
- 1.4 lbs. (.64 kg)

##### **Environmental**

Temperature:	0 to 50°C
Humidity:	10 - 85% (non-precipitating)



### **DESIGN**

The V-9972 allows using a spare E&M port in a 5ESS central office to access a paging system or a Valcom Page Control Unit. The unit is designed with the idea that the central office will be using the meet-me function to allow the paged party to answer the page.

The 5ESS central office seizes the unit with the E-Lead and the unit starts an adjustable 4 to 64 second page length timer and connects the calling party to the page control unit/paging system. The calling party makes their page and the page length timer disconnects the page control/paging system and gives the calling party optional background music. If the paged party answers the page using the meet-me function of the 5ESS or the calling party hangs up, the E-Lead releases and resets the unit. If the paged party doesn't answer, then a second adjustable 30 to 180 second timer that started when the music started will release the unit at the programmed time.

### **INSTALLATION**

When using this equipment, basic safety precautions should be followed to reduce the risk of fire, electric shock, and injury to persons:

1. Never install telephone wiring during a lightning storm.
2. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
3. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the interface.
4. Use caution when installing or modifying telephone lines.
5. Connect the Page Control Unit to terminal screws 7 and 8.
6. Connect the Page Control Unit to terminal screws 3 and 4 for contact closure start for Multi-Zone or BGM Mute function. See Figure 1.
7. Connect 48VDC power supply to terminal screws 13 and 14.
8. Set dip switches for desired options. (See chart following for settings).

**Note: Dip switches for user options should be set for desired functions prior to replacing the enclosure cover and plugging in the power supply.**

9. Replace cover and plug in power supply.

### **Mounting/Connections**

1. Remove the metal mounting plate from the rear of the V-9972 enclosure. Using two #6 3/4" wood screws, mount the plate in a Vacant space on the backboard with the telephone system common equipment. **Both mounting holes must be utilized to insure secure mounting of the unit.**
2. Open the V-9972 enclosure to allow access to connections and option switches. Slide the rear of the unit (contains the board) onto the mounting plate.
3. Using a 1/8" blade screwdriver, connect the 5ESS E & M Port to terminal screws 5, 6, 9, and 10.
4. If music is desired, attach two wires from a music source output to terminal screws 1 and 2. Volume is adjusted by rotating R2 clockwise.

### **TECHNICAL ASSISTANCE**

When trouble is reported, verify the unit is properly connected and there are no broken connections leading to this unit. Assistance in troubleshooting is available from the factory. When calling, you should have a VOM and a test set and be calling from the job site. Call (540) 427-3900 and ask for Technical Support, or call (540) 427-6000 for Valcom 24 hour Automated Support or visit our website at <http://www.valcom.com>.

Valcom equipment is not field repairable and fuses are not user replaceable. Valcom, Inc. maintains service facilities in Roanoke, VA. 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.  
Repair and Return Dept.  
5614 Hollins Road  
Roanoke, VA 24019-5056**

#### **VALCOM LIMITED WARRANTY**

Valcom, Inc. warrants its products to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. The obligation under this warranty shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

1. inspection by Valcom, Inc. indicates the validity of the claim,
2. the defect is not the result of damage, misuse, or negligence after the original shipment.
3. the product has not been altered in any way or repaired by others and that factory sealed units are unopened (A service charge plus parts and labor will be applied to units defaced or physically damaged),
4. freight charges for the return of products to Valcom are prepaid,
5. all units 'out of warranty' are subject to a service charge. The service charge will cover minor repairs (Major repairs will be subject to additional charges for parts and labor).

**This warranty is in lieu of and excludes all other warranties, expressed or implied, and in no event shall Valcom, Inc. be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation, or use of the product.**

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.

Headquarters:  
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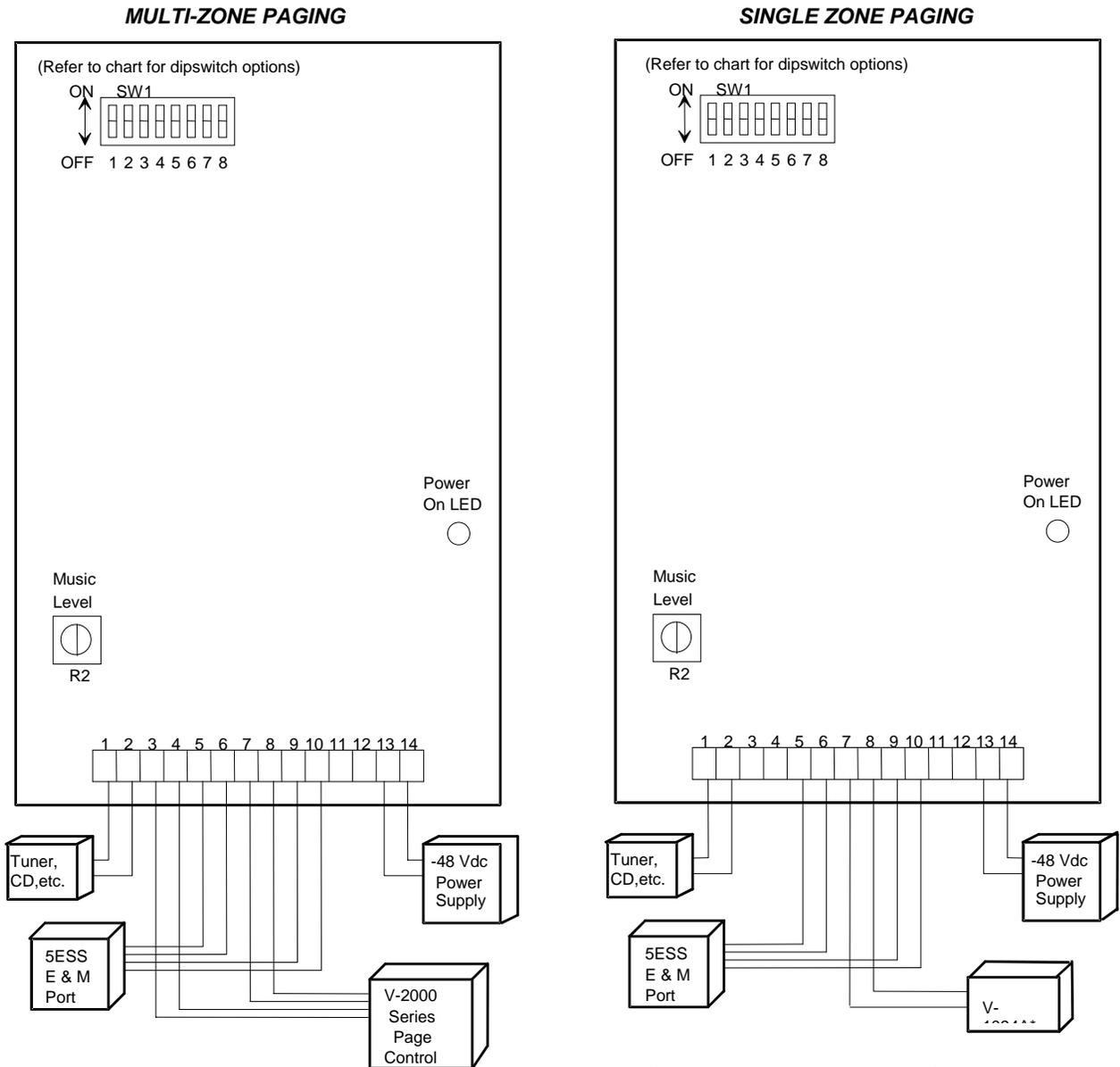
In Canada:  
CMX Corporation  
35 Van Kirk Drive #11 and 12  
Brampton, Ontario L7A1A5  
Phone: (905) 456-1072  
FAX: (905) 456-2269

### DIP SWITCH SETTINGS

SWITCH	1	2	3	4	5	6	7	8	DURATION
MAXIMUM MUSIC DURATION	ON	ON	ON	X	X	X	X	X	DISABLE TIMER
	OFF	ON	ON	X	X	X	X	X	30 SEC
	ON	OFF	ON	X	X	X	X	X	60 SEC
	OFF	OFF	ON	X	X	X	X	X	90 SEC
	ON	ON	OFF	X	X	X	X	X	120 SEC
	OFF	ON	OFF	X	X	X	X	X	150 SEC
	ON	OFF	OFF	X	X	X	X	X	180 SEC
	OFF	OFF	OFF	X	X	X	X	X	210 SEC
MAXIMUM VOICE PAGE DURATION	X	X	X	ON	ON	ON	ON	ON	DISABLE TIMER
	X	X	X	OFF	ON	ON	ON	ON	4 SEC
	X	X	X	ON	OFF	ON	ON	ON	8 SEC
	X	X	X	OFF	OFF	ON	ON	ON	12 SEC
	X	X	X	ON	ON	OFF	ON	ON	16 SEC
	X	X	X	OFF	ON	OFF	ON	ON	20 SEC
	X	X	X	OFF	ON	OFF	ON	ON	24 SEC
	X	X	X	ON	OFF	OFF	ON	ON	28 SEC
	X	X	X	OFF	OFF	OFF	ON	ON	32 SEC
	X	X	X	ON	ON	ON	OFF	ON	36 SEC
	X	X	X	OFF	ON	ON	OFF	ON	40 SEC
	X	X	X	OFF	OFF	ON	OFF	ON	44 SEC
	X	X	X	ON	ON	ON	OFF	ON	48 SEC
	X	X	X	OFF	ON	OFF	OFF	ON	52 SEC
	X	X	X	ON	OFF	OFF	OFF	ON	56 SEC
	X	X	X	OFF	OFF	OFF	OFF	ON	60 SEC
	X	X	X	ON	ON	ON	ON	OFF	64 SEC
	X	X	X	OFF	ON	ON	ON	OFF	68 SEC
	X	X	X	ON	OFF	ON	ON	OFF	72 SEC
	X	X	X	OFF	OFF	ON	ON	OFF	76 SEC
	X	X	X	ON	ON	OFF	ON	OFF	80 SEC
	X	X	X	OFF	ON	OFF	ON	OFF	84 SEC
	X	X	X	ON	OFF	OFF	ON	OFF	88 SEC
	X	X	X	OFF	OFF	OFF	ON	OFF	92 SEC
X	X	X	ON	ON	ON	OFF	OFF	96 SEC	
X	X	X	OFF	ON	ON	OFF	OFF	100 SEC	
X	X	X	ON	OFF	ON	OFF	OFF	104 SEC	
X	X	X	OFF	OFF	ON	OFF	OFF	108 SEC	
X	X	X	ON	ON	OFF	OFF	OFF	112 SEC	
X	X	X	OFF	ON	OFF	OFF	OFF	116 SEC	
X	X	X	ON	OFF	OFF	OFF	OFF	120 SEC	
X	X	X	OFF	OFF	OFF	OFF	OFF	124 SEC	

X = DOES NOT MATTER

**FIGURE 1 - CONNECTIONS TO THE V-9972 PAGE ADAPTER**



\* NOTE: For single zone paging (no BGM), connect a V-1094A to pins 7 and 8.

**CONNECTIONS**

- 1 - Music
- 2 - Music
- 3 - Enable
- 4 - COM
- 5 - T1
- 6 - R1
- 7 - T3
- 8 - R3
- 9 - E
- 10 - M
- 11 - No Connection
- 12 - No Connection
- 13 - GND
- 14 - (-)48 VDC