

VIKING

TECHNICAL Practice

TELECOM SOLUTIONS FOR THE 21ST CENTURY

SLP-4

Single Line Paging
Controller with CD Quality
Westminster Chimes

November 18, 2010

Add Whole-House Paging, Loud Ringing, Phone-to-Phone Intercom and CD Quality Westminster Door Chimes to Your Multi-Room Audio System

The **SLP-4** Single Line Paging controller will allow you to page family members or co-workers from any phone in your home or small office. The pages can be heard over the same speakers that are installed for multi-zone music distribution.

The **SLP-4** provides inputs for 4 lighted doorbell switches. The inputs select 4 different CD quality sounds from a library of eight factory recordings including Westminster bells, chimes, alert tones, barking dogs, etc. Alternatively, users may record their own CD quality sounds into the **SLP-4** from their PC's USB port. When the doorbell switch is pressed, background music is muted while the appropriate sound is heard over the system speakers.

The **SLP-4** connects in series with a single existing phone line. The unit has a built-in 2 watt amplifier, pre-amp output, music on hold input, intercom features, and selectable loud ringing.



Features

- Factory loaded CD quality Westminster door chimes
- Stereo line level pre-amp inputs/outputs for whole house audio systems
- Built-in two-watt mono paging amplifier with gain control
- Phone to phone intercom
- Place callers on music-on-hold when paging
- Can provide background music from an external source
- Background music mute (automatic during paging or touch tone selectable while you are on a call)
- Selectable loud ringing (electronic warble over speakers)
- Four doorbell switch inputs (lighted or non-lighted) for activating door chimes
- Other door sounds: ding-dong, knocking, tones, barking
- USB port for loading custom WAV file chime tones/sounds/music
- 6 minutes of recorded audio storage
- Switch selectable on-hold alarm tones
- Page trigger output (12V signal for enabling paging source input on multi-source amps)
- Individual Chime, Page, and Ringing volume controls
- Bypass code - ignores all touch tones on next off-hook allowing you to steer through auto attendants, etc.
- Page from multiple phone lines by connecting multiple units
- Comes complete with power supply

Applications

- Whole house/small business paging from existing phones
- Add paging, intercom, and music on hold features for small businesses
- Loud ringing / night bell
- Compatible with **C-200**, **C-250**, **C-1000B** and **C-2000B**
- Museum or Info Center, 4 button audio server

Specifications

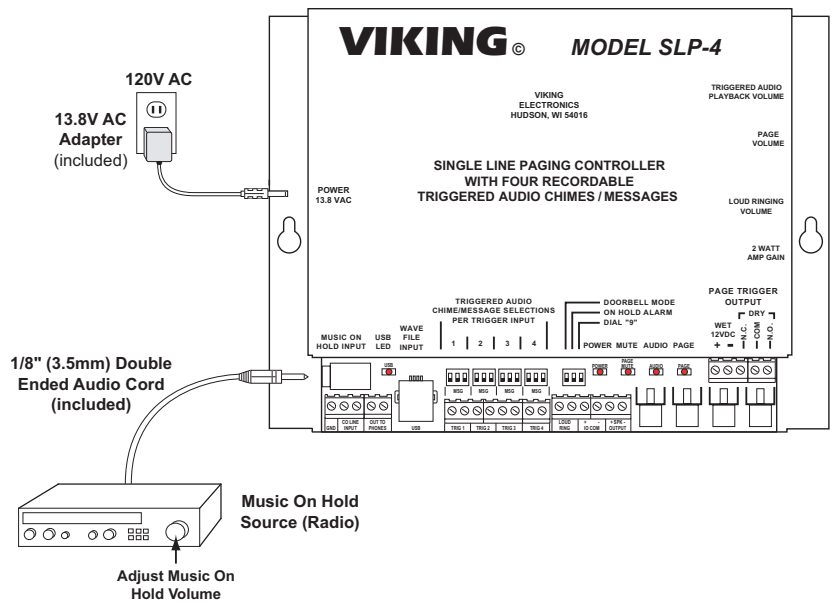
Power: 120V AC/13.8V AC 1.25A, UL listed adapter provided
Dimensions: 210mm x 159mm x 45mm (8.25" x 6.25" x 1.75")
Shipping Weight: 1.5 kg (3.2 lbs)
Environmental: 0°C to 32°C (32°F to 90°F) with 5% to 95% non-condensing humidity
Paging Amplifier Output: 2 watts - powers up to (3) 8 ohm (16) 45 ohm speakers
Sound Pressure: 100 dB @ 1 meter (loud electronic warble from 25AE paging horn)
REN: 0.5A
Maximum Speaker Output Wire Run: 91m (300 ft), 18 AWG
Maximum Doorbell Switch Wire Run: 305m (1000 ft), 24 AWG
Maximum Load on Page Trigger Output: 1K Ohm
Talk Battery: 36V DC
WAV File Resolution: 16 bit or 8 bit
WAV File Sampling Rate: 44.1K, 22K, or 11K
Connections: 24 screw terminal block positions, (4) RCA jacks, (1) Type B USB jack, (1) 3.5mm (1/8") audio jack

Phone... 715.386.8861

Installation

A. Music On Hold

A music source, such as a radio, can be connected to the **SLP-4's** MOH input jack using the provided audio cord. This will provide any caller that has been put on hold with music, to reassure callers they have remained connected while waiting. Adjust the MOH level with the volume control on the music source.



B. Telecom Wiring

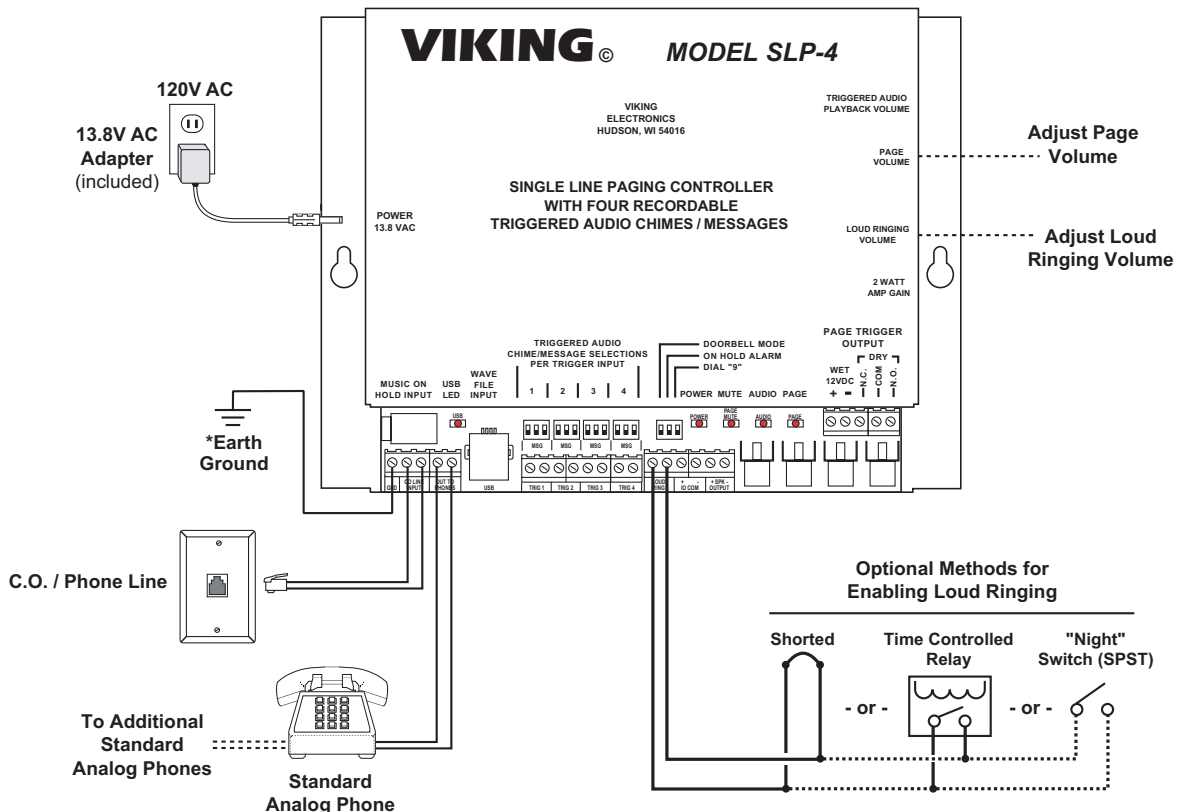
The **SLP-4** should be wired ahead of all phones so that every phone can use the **SLP-4** Telcom features (Page, Hold, Intercom, etc.). Connect the phones to the two screw terminals labeled "OUT TO PHONES".

The incoming analog phone service (C.O. line, VoIP analog port, etc.) is to be connected to the screw terminals labeled "CO LINE INPUT".

To increase surge protection, wire the "EARTH GND" screw terminal to a water pipe, or grounding rod.

To enable the **SLP-4** to provide a loud ringing "warble" sound over the speakers when a call is ringing in, strap together screw terminals labeled "LOUD RING ENABLE".

Paging volume and Loud Ringing volume levels can be independently adjusted using a small screwdriver to adjust the trim POTs on the right side of the **SLP-4**.

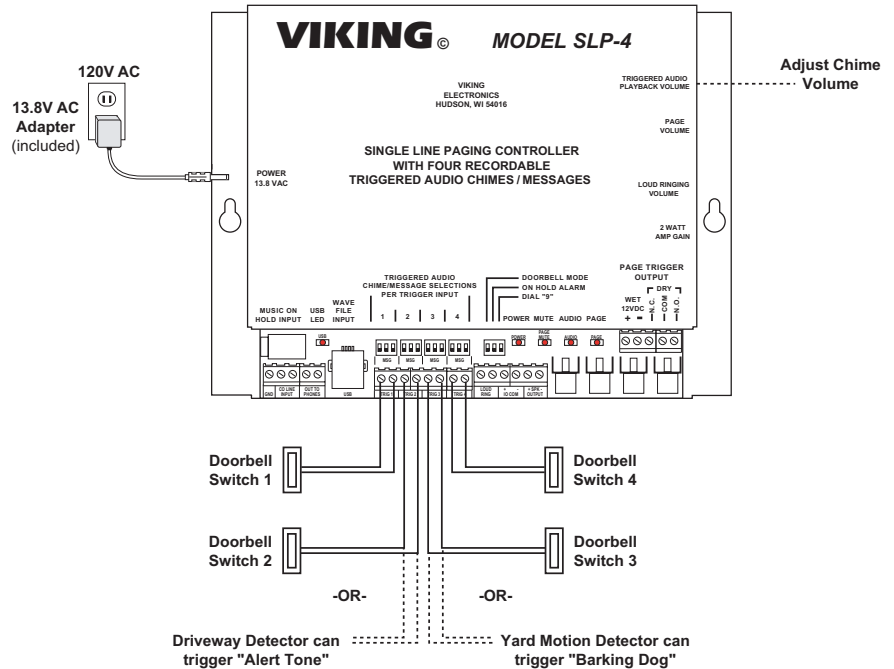


C. Doorbell / Triggered Audio Connections

The **SLP-4** will accommodate up to 4 doorbell inputs. A lighted or non-lighted doorbell button, or any other normally open switch that provides a momentary closure, can trigger the **SLP-4** to play a door chime recording. The **SLP-4** is factory loaded with 8 different non-compressed true CD quality chimes / sounds (see **DIP Switch Programming**, page 8). Each of the 4 triggered inputs can be selected to playback any one of the 8 recordings using the associated DIP Switches. Alternatively, users may load their own CD quality recordings into the **SLP-4** from their PC via the USB connection (see **Downloading WAV Files**, page 9).

The recorded Chimes / Sounds volume level can be adjusted using a small screwdriver to adjust the trim POT on the right side of the **SLP-4**.

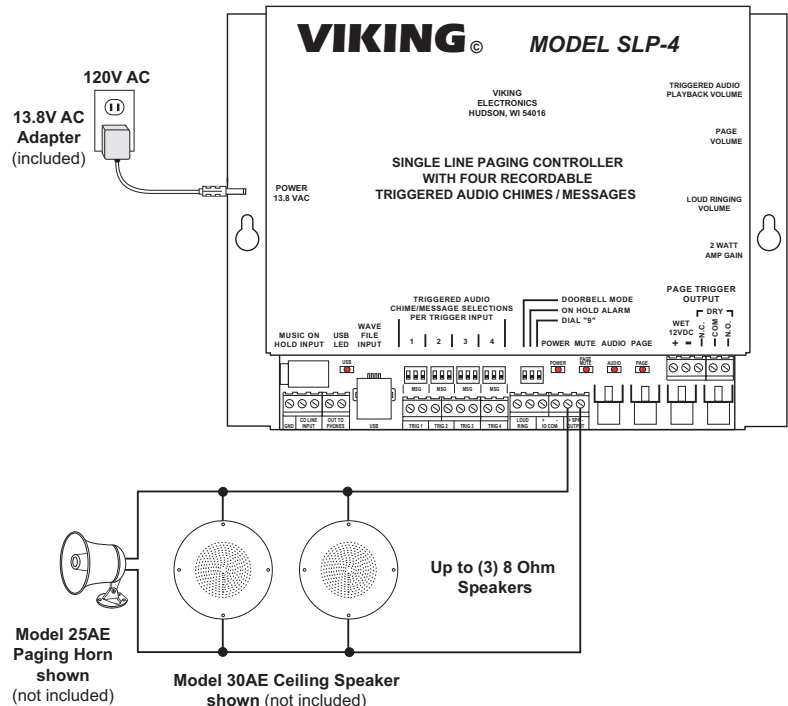
Since 6 minutes of high quality audio may be custom recorded, the **SLP-4** can be used as a 4 button information on-demand announcer at a museum or information booth point of interest location. Because the **SLP-4** includes a built in 2 watt amplifier, no other electronics besides the momentary push buttons, and speaker(s) are needed.



D. Amplified Speaker Output

For convenience, the **SLP-4** supplies a 2 watt amplified output that can be useful in a couple of different ways:

1. If the installation does not have an existing paging or audio system and only a few speakers are needed, the **SLP-4** will also serve as the power amplifier to directly drive up to three 8 ohm speakers.
2. If the installation uses a whole house audio system in which all zones are turned off at night, the **SLP-4**'s speaker output can be used to drive a few speakers in central locations (i.e. front hallway), so the **SLP-4** features such as the Doorbell Chimes can still be heard.



E. Audio Connections

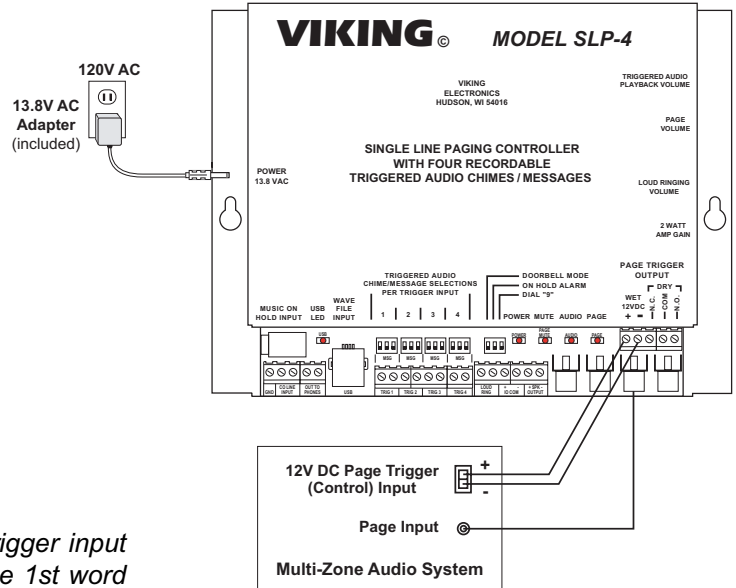
How the **SLP-4** audio connections are wired, is dependent on the system it is being installed into. Shown below are two possible examples.

1. Wiring to a Multi-Zone Whole House Audio System

Typical of multi-zone whole house audio systems, a single RCA audio jack is used for its page input. Most multi-zone controllers/amplifiers require a 12 Volt DC trigger signal (or relay contact closure), to automatically switch the source to the “page” input. The **SLP-4** will provide a switched 12VDC signal (or dry relay contact closure), which is maintained while the unit is paging or for the duration of the door chime recording. It is crucial that correct polarity for the 12 volt DC trigger be observed. If the 12 Volt DC trigger is wired reverse polarity, it will not function properly, and the multi-zone audio system will instead trigger on audio detection. When this is the case, the first part of the page or door chime recording is not heard.

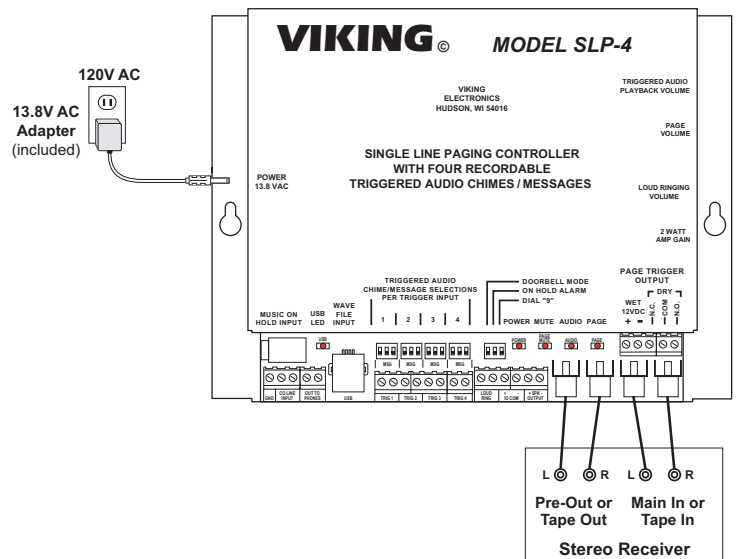
Warning: Multi-zone controllers without a page trigger input (audio sensing only) are not recommended, as the 1st word during paging is usually omitted.

TIP: If the first part of a door chime recording is not heard, and it has been determined the 12V DC page trigger is wired with proper polarity, then the whole house audio system must need additional delay time before it is ready to pass audio. This can be corrected by programming a “Trigger Delay” time in the **SLP-4**. The Trigger Delay time is a selection in the **SLP-4** Message Manager application, which is typically used to load custom WAV audio files from a PC via a USB cable (see page 9). The delay can be programmed from 1 to 9 seconds, and is from when the **SLP-4** provides the page trigger signal, until the recording starts to play.



2. Wiring to a Stereo Receiver Audio System

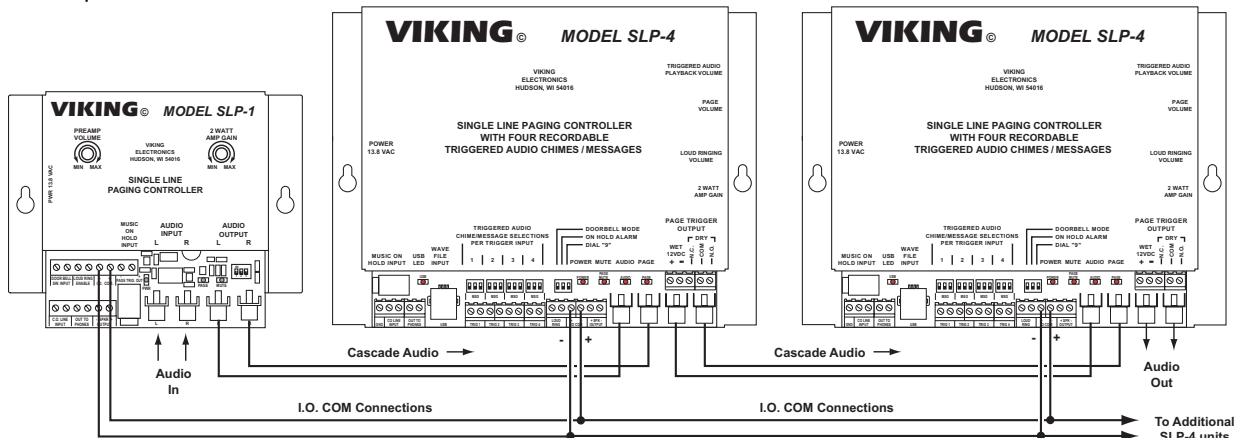
The **SLP-4** has two audio inputs (L & R) and two audio outputs (L & R) available on RCA jacks. When the **SLP-4** is in its idle state, the audio is simply looped thru the unit. Because of this, the **SLP-4** can be inserted between an audio system’s pre-amp and power amplifier, or wired into a Tape Monitor loop of a stereo receiver (as shown). The Tape Monitor loop on the stereo receiver must be turned on. Background music coming into the **SLP-4**’s audio input jacks will be muted during page and doorbell chimes.



F. Multi-Line Paging (I.O. COM)

The SLP-4 is designed to operate on a single phone line. If paging is required on two or more phone lines, connect one SLP-4 or SLP-1 per line. Multiple SLP-4's or SLP-1's can be connected to the same Pre-Amp, Amp or Receiver. When using multiple units, it is important to follow these guidelines:

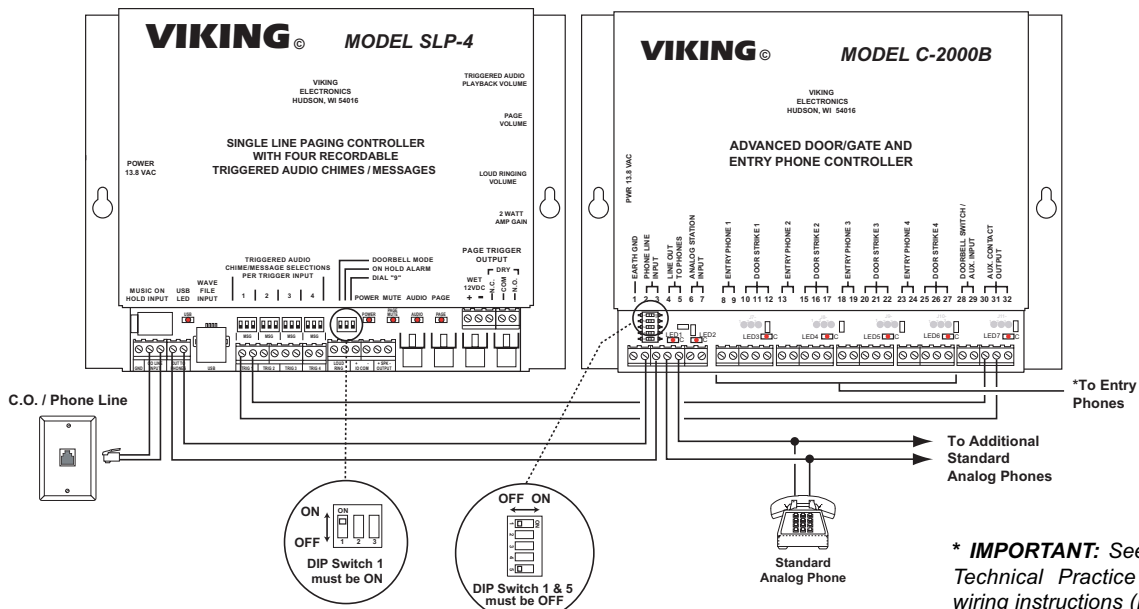
1. One SLP per line with a maximum of ten lines/units.
2. The I.O. COM connections must all be connected together and in proper polarity.
3. Cascade the audio connections from the first unit to the last unit.
4. Background music would need to come into the first unit.
5. Audio outputs from the last unit into the audio system.
6. If used, the trigger outputs (12VDC or DRY) must all be connected together and in proper polarity.
7. Units wired closer to the amplifier will take higher priority when creating loud ringing, doorbell chimes, etc.
8. Paging will be allowed on a first come, first serve basis. Any person attempting to page on another SLP will hear a busy signal on their phone.



Application Wiring

A. Provide Paging* with Unique Front and Back Door Chimes and Control of up to Four Entry Phones and Doorstrikes from a Single Phone Line with the Viking C-2000B

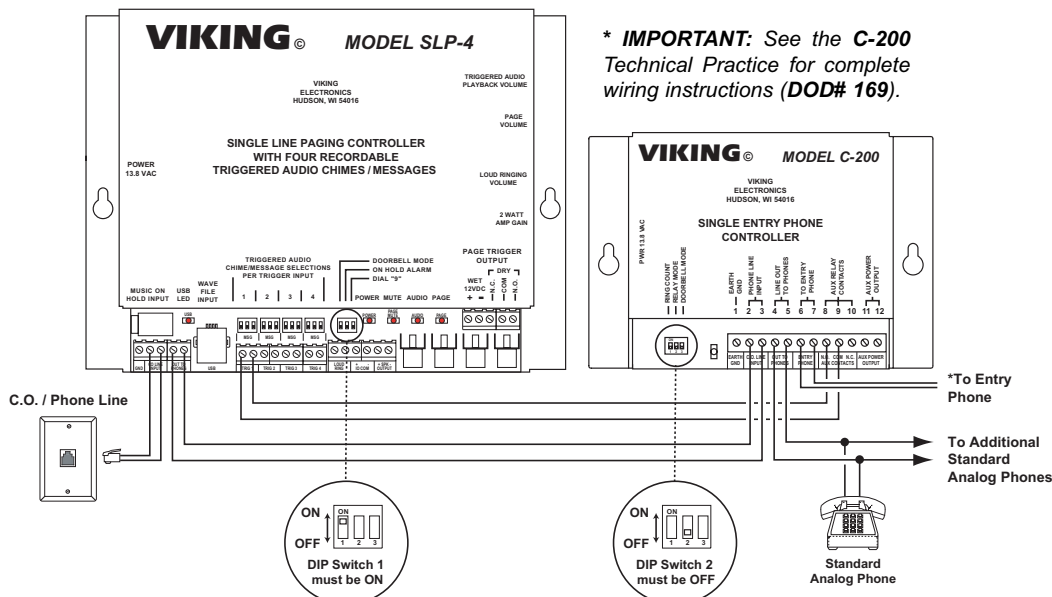
The SLP-4 can be used with the Viking C-2000B entry phone controller. The phone line first runs through the SLP-4, then runs through the C-2000B before continuing on to the house phones. The C-2000B's normally open Aux Contact Output connections, when wired to the SLP-4's Trig1 input, will play the SLP-4's chimes whenever an entry phone calls in. Regardless of the Triggered Audio DIP switch settings; Entry Phone 1 will play Message 1 (factory loaded with Westminster 4 chime), Entry Phone 2 will play Message 2 (Ding Dong). Entry Phone 3 will play Message 3 (Triangle 2) and Entry Phone 4 will play Message 4 (Goblet Chime). To provide these unique front and back door chimes, the SLP-4's "Doorbell Mode" dip switch must be turned ON, and the C-2000B must have the "Auxiliary Contact Mode" enabled (DIP switch 1 OFF) and have the auxiliary contact programmed for "Entry Phone Triggered Ring Cadence Activation" (3#60). Entry phone ringing can also be disabled (0#62). See the C-2000B Technical Practice for programming details (DOD# 156). * **Note:** The SLP-4 paging features are not compatible with the C-2000B in the "Analog Station Dial Through" mode.



* **IMPORTANT:** See the C-2000B Technical Practice for complete wiring instructions (DOD# 156).

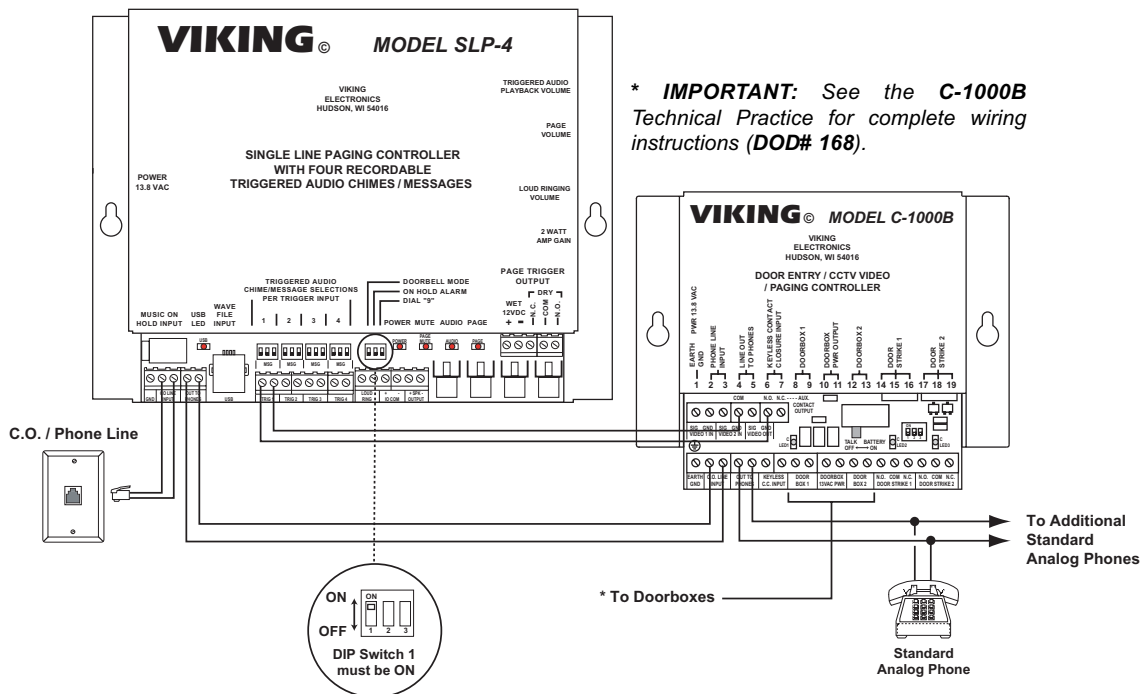
B. Provide Paging, Music-On-Hold and Single Entry Phone Control with the Viking C-200

The SLP-4 can be used with the Viking C-200 single entry phone controller. The phone line first runs through the SLP-4, then runs through the C-200 before continuing on to the house phones. The C-200 normally open Aux Contact Output connections, when wired to the SLP-4's Trig1 input, will play the SLP-4's Message 1 (Westminster 4 chime) whenever the Entry Phone calls in. To enable this function, the SLP-4's "Doorbell Mode" dip switch must be turned ON, and the C-200 must have the relay set to activate a doorbell (DIP switch 2 OFF).



C. Provide Paging, Doorbox and Doorstrike Control with Unique Front and Back Door Chimes with Viking Doorboxes and the C-1000B

The SLP-4 can be used with the Viking C-1000B entry phone controller. The phone line first runs through the SLP-4, then runs through the C-1000B before continuing on to the house phones. The C-1000B's normally open Aux Contact Output connections, when wired to the SLP-4's Trig1 input, will play the SLP-4's chimes whenever a Doorbox calls in. Regardless of the Triggered Audio DIP switch settings; Doorbox 1 will play Message 1 (factory loaded with "Westminster 4" chime), and Doorbox 2 will play Message 2 (factory loaded with "Ding Dong" chime). To provide these unique front and back door chimes from the SLP-4, the C-1000B must be programmed to enable the "Auxiliary Contact Mode" (*7) and have the auxiliary contact programmed for custom ring cadence (12#03). Doorbox ringing can also be disabled by placing the C-1000B in the "Doorbell Mode" (*1). See the C-1000B Technical Practice for programming details. The C-1000B CCTV Video Control Mode can NOT be used in conjunction with unique front and back door chimes. See Operation section I, page 7. The caller's music on hold is limited to 5 seconds while communicating with a doorbox.



D. Eliminating Paging Feedback Squeal

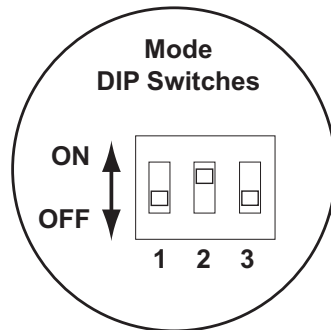
Paging feedback squeal can occur when phones are used in close proximity to the paging speakers. To eliminate paging feedback, turn down the paging volume, move the phones away from the speakers or install a Viking model **FBI-1A** Digital Anti-Feedback Paging Interface. For more information on the **FBI-1A**, see **DOD# 465**.

Programming

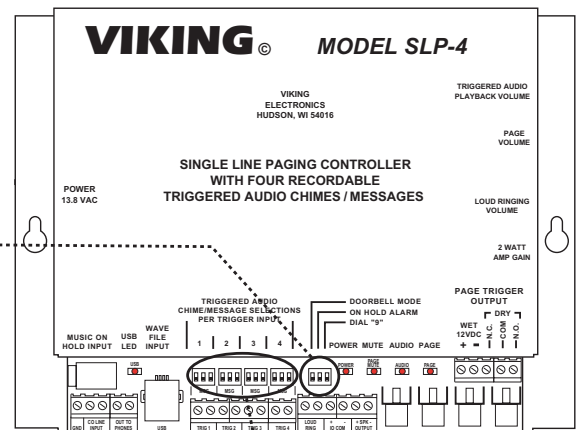
A. DIP Switch Programming

1. Mode DIP Switches

Switch	Position	Description
1	OFF	Trigger 1 input connected to a typical doorbell switch (factory default)
1	ON	Trigger 1 input connected to a C-200 , C-1000B or C-2000B N.O. auxiliary contact output
2	OFF	On-hold alarm disabled
2	ON	On-hold alarm tone enabled, a double beep each minute a call is on hold (factory default)
3	OFF	Instant outside line access (factory default)
3	ON	Dial "9" to access an outside line



Note: DIP switches are shown in factory default settings.

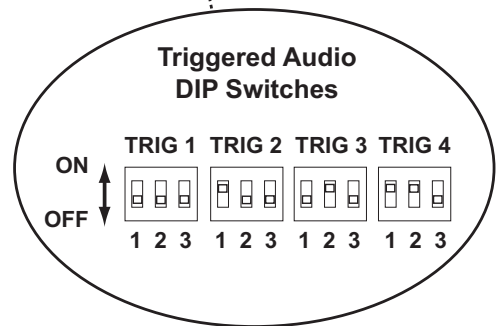


2. Triggered Audio DIP Switches

The **SLP-4** will accommodate up to 4 doorbells wired to its 4 triggered audio inputs (see page 4). Each triggered audio input can play any one of 8 factory loaded CD quality chime/messages. Alternatively, users may download their own CD quality WAV file from a computer via the USB jack to customize their installation (see **Downloaded WAV Files**, page 9).

A set of 3 DIP switches for each associated triggered input are used to independently select which of the 8 chime/messages are to be played for each trigger. Below are the factory loaded chime/messages DIP switch assignments.

Note: DIP switches are shown in factory default settings.



Message	Switch 1	Switch 2	Switch 3	Description
1	OFF	OFF	OFF	Westminster 4 (TRIG 1 default)
2	ON	OFF	OFF	Ding Dong (TRIG 2 default)
3	OFF	ON	OFF	Triangle 2 (TRIG 3 default)
4	ON	ON	OFF	Goblet Chime (TRIG 4 default)
5	OFF	OFF	ON	Wind Chime Notes
6	ON	OFF	ON	Door Knock
7	OFF	ON	ON	Alert Tone 2
8	ON	ON	ON	Dogs Barking

B. Downloading WAV Files (optional)

The **SLP-4** comes factory loaded with 8 CD quality chime/messages. These chime/messages work well for differentiating between up to four different doors when wired to doorbell buttons. The default DIP switch settings have the **SLP-4** playing the Westminster 4, Ding Dong, Triangle 2, and Goblet Chimes, as shown on page 8. Users may choose to select any of the other factory loaded chime/messages (Wind Chime Notes, Door Knock, Alert Tone 2 or Dogs Barking), which best fits their household style. For a truly custom sounding doorbell chime/message, users may download their own WAV files into the **SLP-4** from a computer via the USB connection. Recording up to 8 different theme or seasonal recordings such as team fight songs, jingle bells, Halloween sounds, Brahms's Lullaby, Harley rev, electric guitar riff, etc., all become possible. Go to www.vikingelectronics.com, select Software Downloads, and then choose **SLP-4 Message Manager** to proceed.

WAV File Guidelines:

1. For best results, the WAV file should be 16 bit / 44.1K / mono.
2. Resolution down to 8 bits is acceptable but audio quality will not be optimal.
3. Sampling rates of 22k and 11k are also acceptable.
4. The WAV file may be stereo or multi-channel, but only the Left Channel will be loaded.
5. Each of the 8 Memory Locations can hold up to 44 seconds of recorded audio (at 11k sample rate).
6. Total recording time of 5 minutes 52 seconds available (at 11k sample rate).
7. Longer recordings are allowed to spill over into additional memory locations.

Note: Audio CDs use "Red Book" audio. The commonality is that both audio CDs and WAV files have the audio data encoded in PCM. The Audio Red Book standard is essentially a WAV file along with additional coded information such as title, track, and time information. Applications such as Sound Forge, Audacity, and Windows Sound Recorder can be used to generate WAV files out of Audio CD and/or MP3 audio recordings.

When using the **SLP-4 Message Manager** software, there is the option to select either the "Stack" or "Interrupt" Chime/Message Mode. The **SLP-4** is factory set in the "Stack" mode which means if the front doorbell button and the back doorbell button are pressed at about the same time, the **SLP-4** will fully play the first chime/message, and then fully play the second chime/message. The "Interrupt" mode works well if the **SLP-4** is being used as a museum or information display 4 button audio server (see page 4). This works well for this application because each new push of the button will instantly start playing the recording the user requested.

A delay time can be programmed from when the **SLP-4** provides the page trigger signal, until the door chime recording starts to play. This is useful if the whole house audio system needs additional delay time before it is ready to pass audio. In the **SLP-4 Message Manager** software Options box, a "Trigger Delay" time from 0 to 9 seconds may be selected.

Note: For proper operation, unplug the USB cord from the **SLP-4** when finished loaded the WAV files.

Operation

A. Paging

To page throughout the house/small business, simply press #, then 7 (the letter "P" key on your keypad). Speak into the phone receiver and your voice will be heard throughout the house or small business over the speakers. If background music is present over the speakers, it will automatically mute allowing your page to be heard. If you have a caller on the phone, they will automatically be put on hold. You can get the caller back by simply pressing #8 or by momentarily hanging up. **Note:** The **PAGE LED** will light during paging, and the **AUDIO LED** will flash with paging audio.

B. Placing a Call On Hold

To place a call on hold, simply press # then 6 (the letter "O" key on your keypad), two beeps should be heard confirming the call is on hold, then hang up. The call can then be taken on another phone elsewhere in your home or small business. Optional Music-On-Hold can be provided.

C. Releasing a Call On Hold

If you hang up the phone after placing a call on hold, simply coming off-hook with any phone will return you to the caller on hold. If you have placed a caller on hold (#6) or have announced a page (#7) and have remained off-hook, enter #8 or momentarily hang up to return to the caller on hold.

If the caller hangs up while on hold, the **SLP-4** can sense a CPC disconnect signal and will automatically release the line.

D. On-Hold Alarm Tones

The **SLP-4** can provide on-hold alarm tones to alert you that a caller has been left on hold. After each minute the call has been left on hold, the **SLP-4** will momentarily mute the background music and output a double beep tone over the speakers. This feature can be disabled by setting DIP switch **2** to **OFF** (see **DIP Switch Programming** page 8).

E. Phone to Phone Intercom

This feature allows you to first page someone over the speakers, then speak with them over the phone without the conversation being heard over the speakers. To perform this function, simply press **#**, then **7** (the “**P**” key on your keypad), announce your page, then press the numeric **0** key. Another phone coming off-hook will be instantly connected.

If a phone call comes in during paging or a phone to phone intercom, a ringing warble sound will be heard in the phones. To answer the call, dial **#8**, or hang up both intercom phones to let the call ring in.

F. System Bypass

The system bypass allows you to use outside phone services (automated attendants, etc.) that require the use of the **#** key. Come off hook with any phone and enter **#9**, two confirmation beeps should be heard, hang up the phone. The **SLP-4** will now ignore all Touch Tone commands on the next off-hook.

G. Music Mute

To mute the background music any time you are on the phone, simply enter **#5**. The background music will return when you enter **#5** again or hang-up the phone. The **MUTE** LED will light while the background music is muted. **Note:** *The music mute command (#5) should not be used in multi-line applications.*

H. Outside Line Access Mode (Dial 9)

With DIP switch **3** in the **OFF** position (see **DIP Switch Programming** page 8), simply coming off-hook will instantly give you the outside line. With DIP switch **3** in the **ON** position, you must dial a “**9**” to get an outside line. The **SLP-4**’s features remain the same in either mode. **Note:** *Instant outside line access mode is for use with private dial tone.*

I. Door Chime (Doorbell Switch Input)

With DIP switch **1** in the **OFF** position (see **DIP Switch Programming**, page 8), the doorbell input terminals on the **SLP-4** can be connected to a normally open switch (lighted or non-lighted doorbell buttons, etc.). When the switch is activated, the unit will momentarily mute the background music and provide a door chime/message sound over the speakers. **Note:** *This input is not polarity sensitive and is designed to light standard 6-16V lighted doorbell switches.*

With DIP switch **1** in the **ON** position, the first triggered chime input on the **SLP-4** can be connected to the **C-200**, **C-1000B** or **C-2000B** normally open auxiliary relay contacts. When doorbox 1 on the **C-1000B**, or a door phone on the **C-200** or **C-2000B** is activated, the **SLP-4** will momentarily mute the background music and play message 1 “Westminster 4” over the speakers. When doorbox 2 on the **C-1000B**, or door phone 2 on the **C-2000B** is activated, message 2 “Ding Dong” will be heard over the speakers. Entry phone 3 and 4 on the **C-2000B** will play Message 3 (Triangle 2) and Message 4 (Goblet Chime). This is ideal for determining which door the visitor is located at without having to answer the telephone. **Note:** *The C-200, C-1000B or C-2000B must have the auxiliary contact mode programmed for custom ring cadence. For more information, refer to the Technical Practice.*

J. Loud Ringing

The **SLP-4** can momentarily mute background music and provide loud ringing (warble sound) over the speakers each time the incoming phone line rings. To enable this feature, short terminals labeled **LOUD RING ENABLE**. This input can also be connected to a SPST switch or time controlled relay for night ring applications.

Note: *With loud ringing enabled, if the incoming phone line rings during a page or phone to phone intercom, a short “loud ring” burst will be heard over the speakers every 15 seconds or until the line stops ringing.*

K. I.O. Communications (for Multi-Line Applications)

The **SLP-4** is designed to operate on a single phone line. If paging is required on two or more phone lines, connect one **SLP-4** per line. Multiple **SLP-4**’s can be connected to the same Pre-Amp, Amp or Receiver. In this application the terminals labeled **IO COM** should be connected in parallel to each **SLP-4**. **Caution:** *This connection is polarity sensitive. With the I.O. communication connected between each **SLP-4**, paging will be allowed on a first come, first serve basis. If paging is active on one **SLP-4**, any person attempting to page on another **SLP-4** will hear a busy signal on their phone.*

Quick Reference Guides

Note: Make a photocopy of the **Quick Reference Guides** (below) and place one near your phones for quick reference to all of the **SLP-4** touch tone commands.

VIKING Model SLP-4 Quick Reference Guide		
Feature:	Touch Tone Command:	Description:
Page	# 7	"P" for Page. Speak into the phone receiver and your voice will be heard throughout the house or small business over the speakers. Pressing #7 automatically places a caller on hold; to return to the caller after the page press #8 or momentarily hang-up.
Hold	# 6	"O" for On-Hold. Allows you to place a caller on hold (with music), hang up and take the call on another phone in the house or small business.
Release Hold	# 8 or momentarily hang-up	This releases the caller on hold, allowing you to converse with the caller.
Phone-To-Phone Intercom	# 7 then 0	This allows you to talk with someone at another phone in the house or small business after a page, without the conversation being heard over the speakers.
System Bypass	# 9, then momentarily hang up	Enter #9, hear two beeps, and hang-up. The SLP-4 will now ignore all commands on the next off-hook. This allows you to use outside phone services (automated attendants, etc.) that require use of the # key.
Music Mute	# 5	This command allows you to mute the background music coming through your speakers for the duration of an incoming or outgoing call.
Outside Line Access <small>(use only with DIP switch 3 ON)</small>	9	Enter 9 to gain access to outside dial tone. Note: With DIP switch 3 in the OFF position, you will instantly have outside line dial tone from off-hook (for use with private dial tone).
Standard Features		
Door Chime: Background music will mute and a door chime/message sound will be heard over the speakers.		
Loud Ringing: When enabled, background music will mute and incoming call ringing (warble) sound will be heard over the speakers for the duration of the ring.		
On-Hold Alarm Tones: Each minute the call has been placed on hold, the background music will mute and a double On-Hold alarm tone will be heard over the speakers. Note: This feature can be disabled by setting DIP switch 2 to OFF .		

VIKING Model SLP-4 Quick Reference Guide		
Feature:	Touch Tone Command:	Description:
Page	# 7	"P" for Page. Speak into the phone receiver and your voice will be heard throughout the house or small business over the speakers. Pressing #7 automatically places a caller on hold; to return to the caller after the page press #8 or momentarily hang-up.
Hold	# 6	"O" for On-Hold. Allows you to place a caller on hold (with music), hang up and take the call on another phone in the house or small business.
Release Hold	# 8 or momentarily hang-up	This releases the caller on hold, allowing you to converse with the caller.
Phone-To-Phone Intercom	# 7 then 0	This allows you to talk with someone at another phone in the house or small business after a page, without the conversation being heard over the speakers.
System Bypass	# 9, then momentarily hang up	Enter #9, hear two beeps, and hang-up. The SLP-4 will now ignore all commands on the next off-hook. This allows you to use outside phone services (automated attendants, etc.) that require use of the # key.
Music Mute	# 5	This command allows you to mute the background music coming through your speakers for the duration of an incoming or outgoing call.
Outside Line Access <small>(use only with DIP switch 3 ON)</small>	9	Enter 9 to gain access to outside dial tone. Note: With DIP switch 3 in the OFF position, you will instantly have outside line dial tone from off-hook (for use with private dial tone).
Standard Features		
Door Chime: Background music will mute and a door chime/message sound will be heard over the speakers.		
Loud Ringing: When enabled, background music will mute and incoming call ringing (warble) sound will be heard over the speakers for the duration of the ring.		
On-Hold Alarm Tones: Each minute the call has been placed on hold, the background music will mute and a double On-Hold alarm tone will be heard over the speakers. Note: This feature can be disabled by setting DIP switch 2 to OFF .		

Compatible Products

Add Paging to Your Existing Phone Line Without an Expensive Phone System

The **SLP-1** Single Line Paging controller will allow you to page family members or co-workers from any phone in your home or small office. The pages can be heard over the same speakers that are installed for multi-zone music distribution.

The **SLP-1** connects in series with a single existing phone line. The unit has a built-in 2 watt amplifier, pre-amp output, music on hold input, intercom features and selectable loud ringing. The **SLP-1** provides an input for a lighted doorbell switch, allowing a door chime to be heard over existing speakers. Page from several different phone lines by connecting multiple units.

For more information, see DOD# 478.



Add a Viking Entry Phone to an Existing Phone Line

The **C-200** allows single line telephones or a telephone system to share a phone line with a single Viking entry phone. Tenants may answer an entry phone call and converse with the visitor.

The **C-200** provides a "Call Waiting" tone when the phone line is in use. Tenants may call out to the entry phone for monitoring purposes. Auxiliary contacts are provided to operate a doorbell, or activate a camera, lights, etc.

For more information, see DOD# 169.



Add One or Two Doorboxes to an Existing Phone Line

The **C-1000B** allows single line phones or phone systems to share a phone line with one or two Viking doorboxes or paging amplifiers. The **C-1000B** provides two Touch Tone controlled relays to operate door strikes or gate openers and **provides doorbox triggered CCTV camera switching**.

Viking doorboxes and paging amplifiers can be used on single line, residential or home office applications as well as on fully loaded systems, because they are no longer limited to installation on unused trunk ports.

For more information, see DOD# 168.



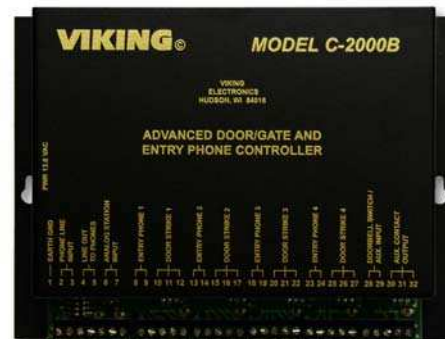
Add 1-4 Entry Phones and Doorstrike Control to an Existing Phone Line

The **C-2000B** allows single line phones or phone systems to share a phone line with 1-4 entry phones. Tenants may answer an entry phone call, converse with the visitor and activate a contact closure to control electronic gates or door strikes.

The **C-2000B** provides entry phone "Caller ID" and will also provide "Call Waiting Caller ID" and a "Call Waiting" tone when the phone line is in use. Tenants may gain entry at each gate by entering a touch tone keyless entry code.

Tenants may call out to each entry phone for monitoring purposes. An auxiliary input is also available for connecting a lighted doorbell switch, a common garage door opener/receiver or an auxiliary keyless entry keypad.

For more information, see DOD# 156.



Product Support Line...715.386.8666

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