VIKING ©

Add Peripherals without Changing Your Phone System

The **C-1000** Controller dramatically expands the potential installation sites for many peripherals such as doorboxes and paging amplifiers.

Doorboxes and paging amplifiers can now 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.

The **C-1000** allows single line phones or phone systems to share a phone line with one or two doorboxes or paging amplifiers. In addition, the **C-1000** provides two Touch Tone controlled contact closures to operate door strikes or gate openers.

http://www.VikingElectronics.com
E-mail...Sales@VikingElectronics.com

Features

- Allows two Viking doorboxes to share a telephone line with a residential or business telephone system

- May be used with single line telephones, PABX systems, Electronic key systems or 1A2 Key systems

- **Custom ringing mode distinguishes doorbox calls from C.O. calls**

- Call waiting tones indicate which doorbox is calling and distinguish a doorbox call from a C.O. line call

- Calls can be placed on hold when visitors call from the doorbox

- Provides (2) Touch Tone controlled N.O. and N.C. dry contact closures for door strikes or gate openers

- Compatible with pulse or Touch Tone phones

Applications

- Add one or two Viking Doorboxes to your home or office phones

- Add paging amplifiers to provide loud ringing and paging to offices with single line phones or fully loaded phone systems

- Provide commercial or residential security via two-way handsfree communication at the door and gate

- Use as a line concentrator (one answering machine can answer three lines)
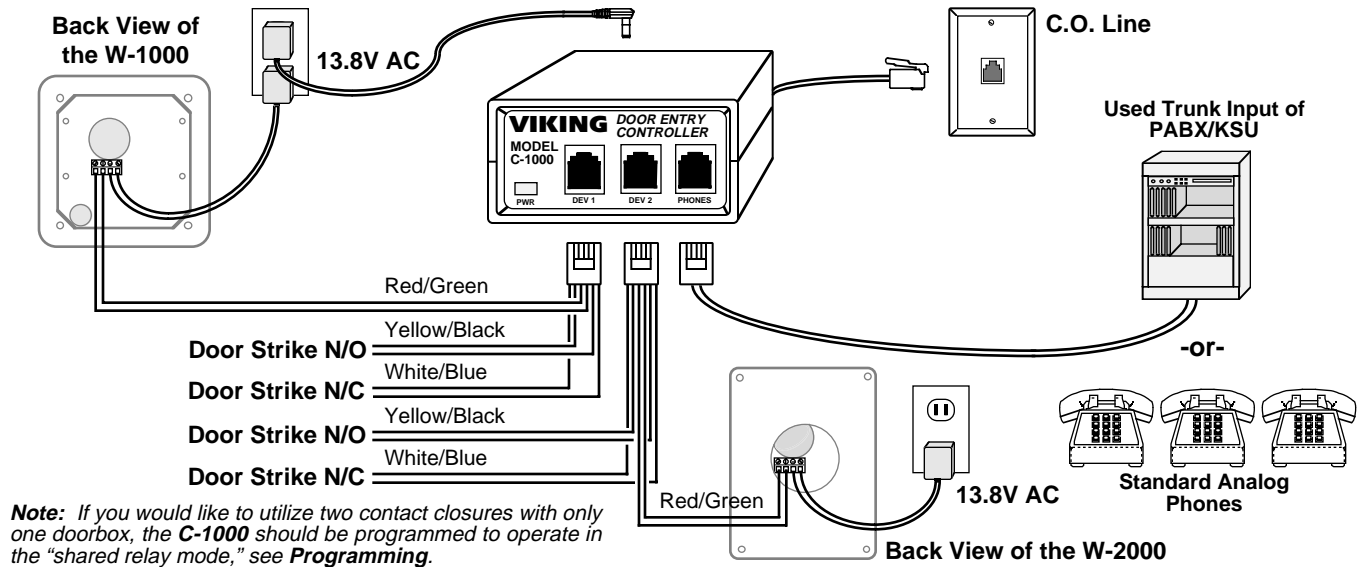
Sales...(715) 386 - 8861

Specifications

Power: 120V AC/12V DC 500mA, UL listed adapter provided
Dimensions: 119mm x 71mm x 36mm (4.7" x 2.8" x 1.4")
Shipping Weight: 0.4 kg (0.86 lbs)
Environmental: 0° C to 32° C (32° F to 90° F) with 5% to 95% non-condensing humidity
Relay Contacts: 24V AC/DC .75A maximum
Connections: (3) RJ11 jacks, (1) RJ11 plug
Pulse Dialing Detection: 10 pps
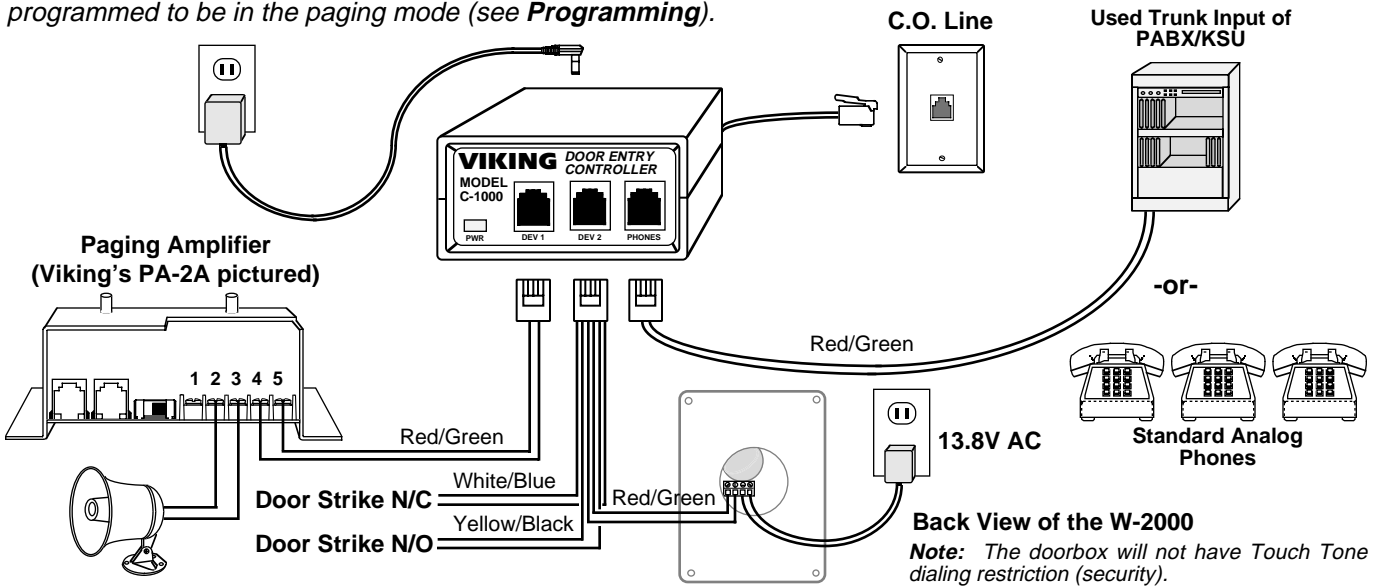
Made in the U.S.A.

A. Two Doorboxes Sharing a Single Line Phone or C.O. Port

Important: *Door strikes should not exceed 24V AC/DC at .75A. Use an external relay for heavier loads.*

Back View of the W-1000

13.8V AC

C.O. Line

VIKING *DOOR ENTRY CONTROLLER*
MODEL C-1000
PWR   DEV 1   DEV 2   PHONES

Used Trunk Input of PABX/KSU

Red/Green

Yellow/Black

Door Strike N/O

White/Blue

Door Strike N/C

Yellow/Black

Door Strike N/O

White/Blue

Door Strike N/C

-or-

Red/Green

13.8V AC

Standard Analog Phones

Note: *If you would like to utilize two contact closures with only one doorbox, the **C-1000** should be programmed to operate in the "shared relay mode," see **Programming**.*

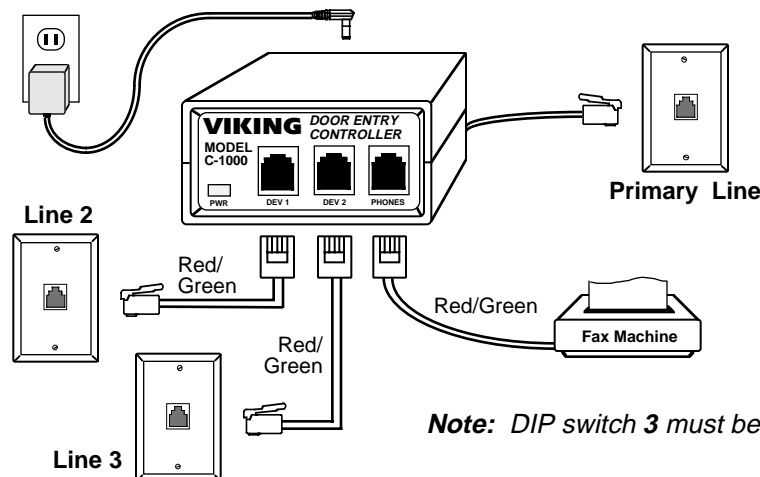**Back View of the W-2000**

B. Adding Paging to Homes and Small Businesses with Single Line Phones

The **C-1000** may be used to provide paging and phone service from single line telephones when used with an amplifier that provides talk battery, such as the **PA-2A** (**Fax Back Document 485**). ***Note:*** *The **C-1000** must be programmed to be in the paging mode (see **Programming**).*

C.O. Line

Used Trunk Input of PABX/KSU

VIKING *DOOR ENTRY CONTROLLER*
MODEL C-1000
PWR   DEV 1   DEV 2   PHONES

Paging Amplifier (Viking's PA-2A pictured)

1 2 3 4 5

Red/Green

Door Strike N/C

White/Blue

Red/Green

Door Strike N/O

Yellow/Black

-or-

Red/Green

13.8V AC

Standard Analog Phones

Back View of the W-2000

Note: *The doorbox will not have Touch Tone dialing restriction (security).*

C. One Device Answers Three Lines (Line Concentrator Mode)

VIKING *DOOR ENTRY CONTROLLER*
MODEL C-1000
PWR   DEV 1   DEV 2   PHONES

Primary Line

Line 2

Red/Green
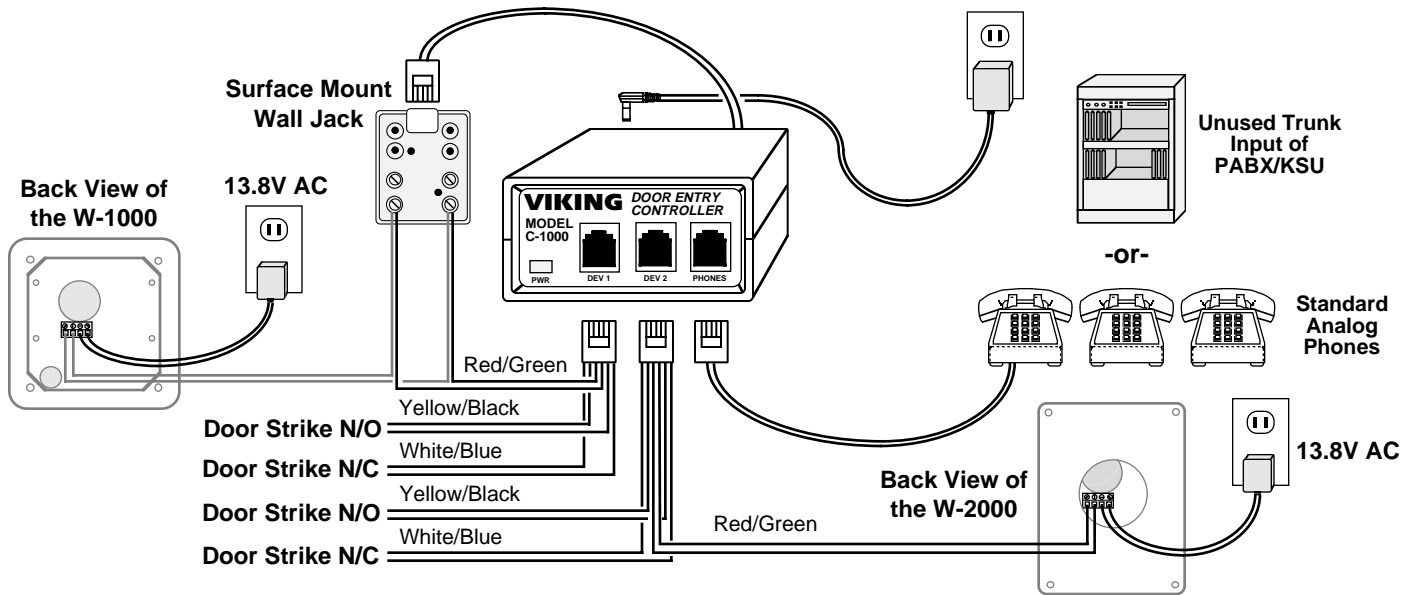
Red/Green

Fax Machine

Red/Green

Line 3

The **C-1000** can be used as a line concentrator, allowing you to connect up to three separate C.O. lines to one telecom device. The first ringing line will ring to the "**PHONE**" port of the **C-1000**. On outbound calls, the **C-1000** will default to the line connected to the line cord. To access the lines connected to "**DEV 1**" or "**DEV 2**", simply dial Touch Tones "**#1**" or "**# 2**" respectively.

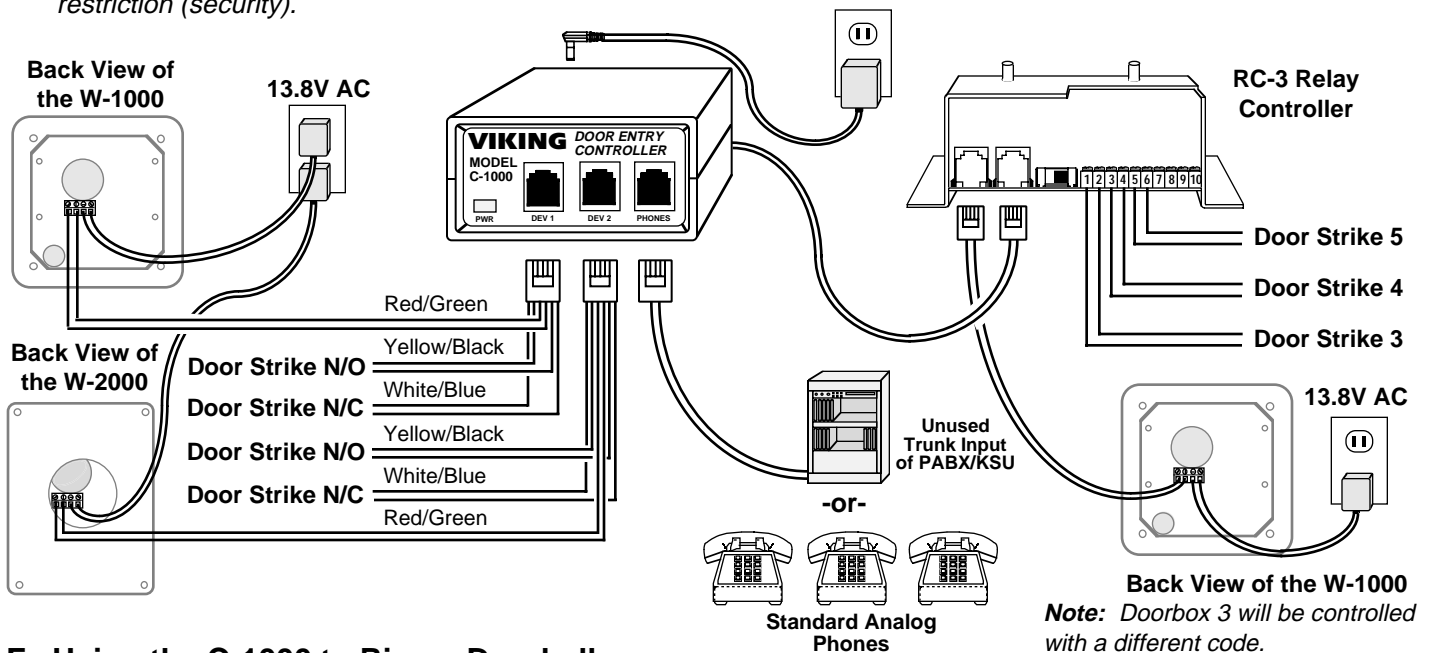***Note:*** *DIP switch **3** must be moved to the **OFF** position.*

D. Connecting Doorboxes to a C-1000 without a C.O. Line

Note: *Doorbox 1 will not have Touch Tone dialing restriction (security).*

Surface Mount Wall Jack

Back View of the W-1000

13.8V AC

VIKING **DOOR ENTRY CONTROLLER**
MODEL C-1000
PWR   DEV 1   DEV 2   PHONES

Unused Trunk Input of PABX/KSU

-or-

Standard Analog Phones

Red/Green

Door Strike N/O — Yellow/Black
Door Strike N/C — White/Blue
Door Strike N/O — Yellow/Black
Door Strike N/C — White/Blue

Red/Green

Back View of the W-2000

13.8V AC

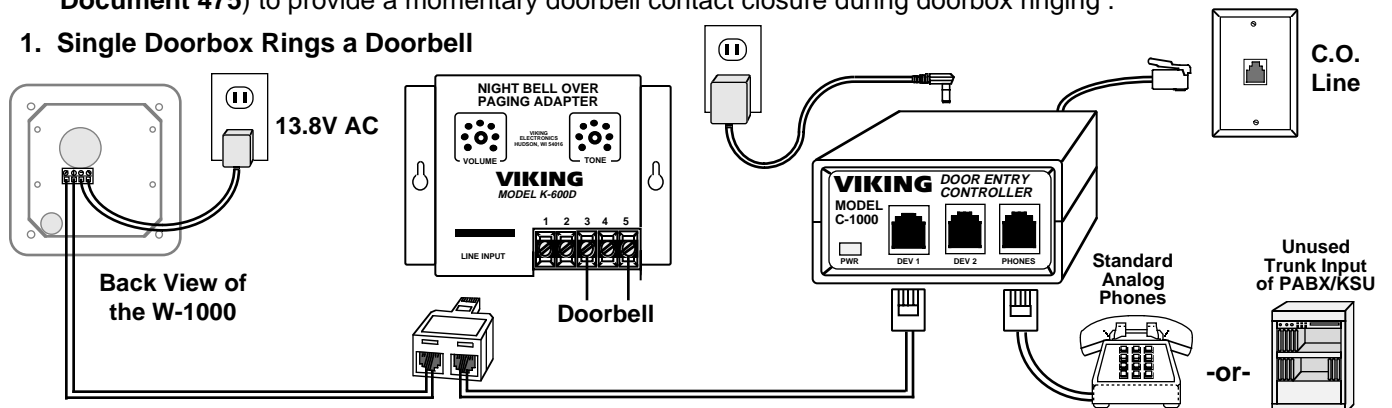## E. Using the C-1000 with Three Doorboxes and Three or more Door Strikes

The **C-1000** can be used in combination with the **RC-3** Remote Controller (**Fax Back Document 165**) for applications where more than two doorboxes are required. In this configuration, the **RC-3** is connected in parallel with doorbox 3 to provide up to three contact closures. *Note:* *Doorbox 3 will not have Touch Tone dialing restriction (security).*

Back View of the W-1000

13.8V AC

VIKING **DOOR ENTRY CONTROLLER**
MODEL C-1000
PWR   DEV 1   DEV 2   PHONES

RC-3 Relay Controller
1 2 3 4 5 6 7 8 9 10

Door Strike 5
Door Strike 4
Door Strike 3

Red/Green

Back View of the W-2000

Door Strike N/O — Yellow/Black
Door Strike N/C — White/Blue
Door Strike N/O — Yellow/Black
Door Strike N/C — White/Blue

Red/Green

Unused Trunk Input of PABX/KSU

-or-

Standard Analog Phones

13.8V AC

Back View of the W-1000
Note: *Doorbox 3 will be controlled with a different code.*
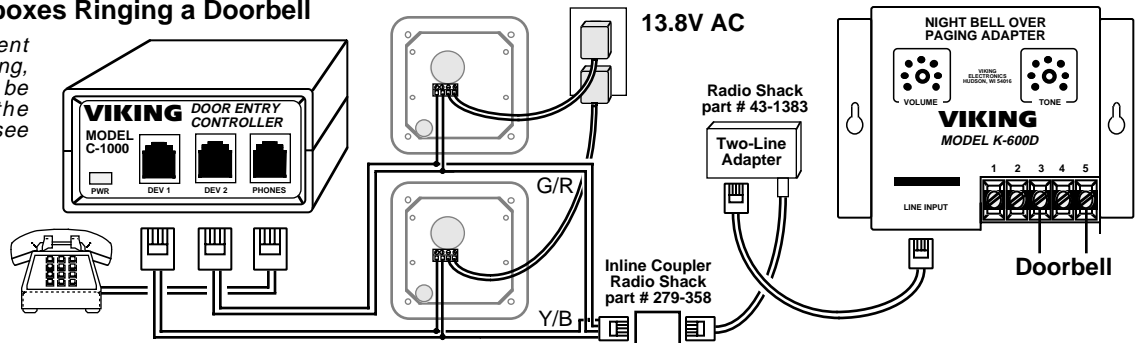
F. Using the C-1000 to Ring a Doorbell

The **C-1000** can be connected in combination with the **K-600D** Night Bell Over Paging Adapter (**Fax Back Document 475**) to provide a momentary doorbell contact closure during doorbox ringing .

1. Single Doorbox Rings a Doorbell

13.8V AC

NIGHT BELL OVER PAGING ADAPTER
VIKING ELECTRONICS HUDSON, WI 54016
VOLUME   TONE
VIKING **MODEL K-600D**
LINE INPUT
1 2 3 4 5

C.O. Line

VIKING **DOOR ENTRY CONTROLLER**
MODEL C-1000
PWR   DEV 1   DEV 2   PHONES

Standard Analog Phones

Unused Trunk Input of PABX/KSU

Back View of the W-1000

Doorbell

-or-

2. Multiple Doorboxes Ringing a Doorbell

Note: To prevent phones from ringing, the **C-1000** could be operated in the doorbell mode, see **Programming**.

Programming

A. Programming the C-1000

1. Enter the Programming mode by going off-hook and entering ✶ followed by the security code (factory set to 845464), a double beep will be heard. Alternatively, move DIP switch 2 from OFF to ON while on-hook, then go off hook, a double beep will be heard. *Note: Call in from another line to avoid C.O. tones.*
2. To change the security code, enter 6 digits (0 - 9) followed by **#47**.
3. To program the closure time for device 1, enter 2 digits followed by **#01** (see chart to right).
4. To program the closure time for device 2, enter 2 digits followed by **#02** (see chart to right).
5. Operation modes may be set while in the programming mode. Follow the steps below:
   a. To change programming, reset the **C-1000** to factory settings by pressing ✶**0**.
   b. Change operational modes by entering the codes listed in the chart below left.

Digits	Mode	Description
✶0	Factory Default	Sets mode to factory default
✶1	Doorbell Mode	Doorbox does not ring through to phones
✶2	Custom Ring Mode	Double ring from device ports
✶3	Shared Relays Mode	One doorbox utilizes both relay closures
✶4	Paging Mode	C.O. line held, allows page, press # to return to line

6. To change **DIP** switches, use the chart to the right.

Digits	Seconds
00	.5
01	1
02	2
03	3
04	4
05	5
06	6
07	7
08	8
09	9
10	10

Switch	Description	ON/OFF
1	ClosureTime	**OFF -** .5 seconds **ON -** 10 seconds
2	Learn Mode	**OFF -** Normal Mode **ON -** Learn Mode
3	Mode Selection	**OFF -** Line Concentrator Mode **ON -** Normal Operation Mode

Operation

A. Placing C.O. Line Calls On Hold

If a C.O. line call is in progress and a doorbox is initiated, a single or double "call waiting" tone will be heard indicating doorbox 1 (**DEV 1**) or doorbox 2 (**DEV 2**) is calling. To place the in-progress call on hold and answer the calling doorbox, simply dial a Touch Tone "**#**", pulse dial a "**2**" or hook flash twice.

B. Activating the Door Strike

To activate a relay contact, you must be communicating with a doorbox. Simply Touch Tone dial "✶ ✶", pulse dial a "3" or hook flash three times. Two confirmation tones will be heard and the relay will be activated for the programmed contact closure time. The phone will then be returned to the C.O. line and the original caller will be taken off hold to continue the conversation. To return to the original call without activating a relay, Touch Tone dial "**#**", pulse dial a "**2**" or hook flash twice.

C. Monitoring A Doorbox

A doorbox may be turned on for monitoring purposes by Touch Tone dialing a "**#**" followed by a Touch Tone "**1**" or "**2**" to activate doorbox 1 or doorbox 2 respectively. This feature is not available for pulse dialing phones.
Note: Do not attempt doorbox monitoring while a call is in progress, the call will be disconnected.

D. Features

*Note: When on the C.O., if a Touch Tone other than # is entered, any additional Touch Tones in that dial string will be ignored. To regain control of the **C-1000**, the phone must be momentarily placed on-hook.*

	Touch Tones	Pulse
[1] Activate relay 1 or 2	✶ ✶	pulse dial 3 or hook flash 3 times
[1] Continuously activate relay 1 or 2	✶ 1	
[1] [2] Continuously de-activate relay 1 or 2	✶ 0	
[1] [2] Toggle relay from last position/activate second relay (shared relay mode) ...	✶ #	
Answer or disconnect a doorbox call	#	pulse dial 2 or hook flash 2 times
Monitor doorbox 1	# 1	
Monitor doorbox 2	# 2	

[1] These commands will only function while communicating with a doorbox.
[2] When a relay is de-activated, a single beep is heard in place of the two conformation tones.

Product Support Line...(715) 386-8666   *Fax Back Line...(715) 386-4345*