

# TECHNICAL Practice

TELECOM SOLUTIONS FOR THE 21ST CENTURY

K-1900-5

Hot-Line Touch
Tone Dialer

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TWAcommocom

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# Replace Dedicated Phone Lines with a Touch Tone Hot-Line Dialer



Why pay the premium of leased or dedicated phone lines?

The **K-1900-5** will automatically dial a preprogrammed number, of up to 32 digits, whenever an associated telephone is taken off hook. Using non-volatile E<sup>2</sup> memory, the **K-1900-5** is telephone line powered and will operate on any loop start central office line or analog PABX/KSU extension.

The **K-1900-5** is easily programmed remotely or locally using a standard Touch Tone phone.

This product does not eliminate the possibility of toll fraud! To further protect against fraudulent calls, use with a TR-1 Toll Restrictor (Fax Back Document 705).

## Applications

- · Security and emergency phones
- Interactive point of sale displays
- · Apartment security
- Catalog sales
- Automated Teller Machines (ATM's)
- · Replaces leased ring down circuits
- Hot-Line reservation phones for hotels, airlines, car rentals, etc.

### Features -

- Touch Tone programmable
- Telephone line powered
- Non-volatile E<sup>2</sup> memory (no batteries required)
- Ring detection (won't dial on inbound calls)
- · User programmable security code
- Programmable pauses in one and four second increments
- Programmable to interrupt user touch tone dialing to help control fraudulent calls from hand held dialers, etc.
- Programmable dialing speed (normal or fast)
- Can be configured to operate from a contact closure (Fax Back Document 818)

# Specifications -

**Power:** Telephone line powered (24V DC 20 mA minimum)\* **Dimensions:** 74mm x 53mm x 25mm (2.9" x 2.1" x 1.0")

Shipping Weight: .45 kg (1 lb)

Environment: 0°C to 32°C (32°F to 90°F) with 5% to 95% non-

condensing humidity

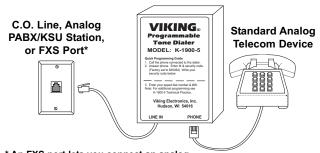
Connections: (1) RJ11 plug, (1) RJ11 jack

Dialing Speed: Normal - 120ms on/off, Fast - 50ms on/off

\* Note: When installing multiple line powered products (K-1900-5 and E-10/E-15/E-20A/K-1500-EHF) on the same line, additional talk battery voltage and loop current may be required.

### Installation

Install the **K-1900-5** in series between a telephone and a C.O. line or analog PABX/KSU station.



\* An FXS port lets you connect an analog telephone or device to an IP network.

#### A. Accessing the Programming Mode

- 1. Connect the K-1900-5 to a C.O. line or analog PABX/KSU station.
- From a Touch Tone phone, call another phone connected to the K-1900-5.
- Take the phone connected to the dialer off hook (answer the phone).
- 4. Enter \* followed by the six digit security code (see section D on the next page). A double beep will indicate that you have accessed the programming mode.
- **5.** You can now program your speed dial number and the following features listed in section **B** below.

**Note:** Programming from a cell-phone may not be suitable in areas with weak coverage.

B. Programming Features	Digits +	Location
Speed dial number (1-32 digits*)	Number	+ #00
To add a * at any point in the dialing string		
To add a # at any point in the dialing string	*#	
Set dialing speed to normal (120ms on/off, factory setting)	*1	
Set dialing speed to fast (50ms on/off)		
Restrict Touch Tone user dialing before, during and after the dialing string (factory setting)		
Allow Touch Tone user dialing after speed dial		
Set pause before dialing to normal (factory setting)		
Set pause before dialing to short	*6	
To add a four second pause at any point in the dialing string		
To add a one second pause at any point in the dialing string		
Enable Touch Tone and flash restriction before and during speed dial (factory setting)		
Disable Touch Tone and flash restriction (overrides *3, *4, *09 and *00)	*02	
Enable user flash restriction (factory setting)		
Disable user flash restriction		
Clear programming and change back to factory settings		
Dialing delay timer (01 - 99 seconds, 00 disables)		+ #40
Change security code (factory set to 845464)	6 digits (0 -	
*Note: Special features such as a pause, a Touch Tone "*" and a Touch Tone "#" count as a single dig	git.	

#### C. Programming Examples

Programming the K-1900-5	Enter Digits	Enter Memory Location	
to dial 386-8861	3868861	#00	
to dial 9 (for outside line), pause four seconds, and dial 1-612-555-1212	9*716125551212	#00	
to dial *67	**67	#00	
to enable unlimited user dialing after the K-1900-5 has speed dialed	*4	none	

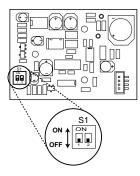
Note: \*7 places a four second pause after digit 9.

#### D. Security Code

The six digit number can be used to access the programming mode. The security code has been factory set to 845464 (V-I-K-I-N-G). It is recommended that you change the security code to a personal 6 digit number. If you have forgotten your security code, remove the cover, locate DIP switch 2 (see diagram to the right), move switch 2 to ON and follow steps 1-3 in section A. Two beeps will indicate you have entered the programming mode. When finished programming, move DIP switch 2 back to OFF. Note: The security code must be six digits in length and can NOT contain a \* or #.

### E. Interrupt User Dialing / This is not complete toll fraud protection!

The K-1900-5 interrupts all pulse dialing and can be programmed to interrupt any Touch Tone dialing it did not generate. The K-1900-5 reacts by continuously repeating Touch Tone #'s until the associated phone has been hung up. To enable unlimited user dialing after the K-1900-5 has speed dialed, enter \*4 while programming. Entering a \*3 will prohibit user dialing. Note: This feature is factory set to block user dialing.



Memory

#### F. Dialing Delay Timer

The K-1900-5 can be programmed to delay from 1 to 99 seconds before dialing the number programmed in its memory (see Programming section B above). Note: Many CO's provide only 20 seconds of dial tone, so that if the delay is longer than 20 seconds the call would not be connected.

#### FCC Requirements -

Type of Service
The K-1900-5 is designed to be used on standard device telephone lines. The K-1900-5 is connected to the telephone line by means of a standard RJ-11 plug. Connection to telephone company-provided coin service (central office implemented systems) is prohibited. Connection to party line service is subject to State tariffs.

Telephone Company Procedures

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The goal of the telephone company is to provide you with the best service it can. In order to do this it may occasionally be necessary for them to make changes in their equipment, operations, or procedures. If these changes affect your service of the operation equipment, the telephone company will give you notice in writing, allowing you to make any changes necessary to maintain uninterrupted service. If you have any questions about your telephone level, below the properties of equipment you can connect to it, the telephone company will provide you information from you, concerning the equipment which is connected to your telephone line. Upon request equipment and the injury equipment which is connected by our telephone line. Upon request equipment and the injury equipment which is connected by our telephone line. Upon request equipment and the injury equipment which is connected by our telephone line. Upon request equipment and the injury equipment which is connected by our telephone line. Upon the equipment and the injury equipment which is connected by our telephone line. Upon the equipment which is connected to your telephone line. Upon the equipment which is connected by our telephone line. Upon the equipment which is connected to your telephone line. Upon the equipment which is connected by our telephone line. Upon the equipment which is connected by our telephone line. Upon the equipment which is connected by our telephone line. Upon the equipment which is connected by our telephone line. Upon the equipment which is connected by our telephone line. Upon the equipment which is connected by our telephone line. Upon the equipment which is connected by our telephone line. Upon the equipment which is connected by our telephone line. Upon the equipment which is connected by our telephone line. Upon the equipment which is connected by our telephone line. Upon the equipment which is connected by our telephone line. Upon the equipment which is connected by our telephone line. Upon the ment label. The sum of all the REN's on your telephone lines should be less than five in order to assure proper service from your telephone company. In some cases, a sum of five may not be usable on a given line.

If any of your telephone equipment is not operating properly, you should immediately remove it from your telephone line as it may cause harm to the telephone network. If the telephone company notes a problem, they may temporarily discontinue service. When practical, they will notify you in advance of this disconnection. If notified, you will be given the opportunity to correct the problem and informed of your right to file a complaint with the FCC. In the event repairs are ever needed on your Viking product, they should be performed by Viking Electronics, Inc. and or an authorized representative of Viking Electronic, Inc.. For more information contact Viking Product Support at (715)388-8666

FCC Part is Limitations
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment is a residential area is likely to cause harmful interference in which case the user will have to correct the interference at his own expense.

### Product Support Line...715.386.8666

Fax Back Line...715.386.4345

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