

Telecommunication Peripheral Products
Technical Practice

K-1500-5KB

Hot-Line Dialer

October 28, 1997

Touch Tone or Pulse Hot-Line Dialer



The **K-1500-5KB** eliminates the need to pay the premium of leased or dedicated phone lines by converting any analog phone into a single number Hot-Line phone. The dialer will operate on any analog PABX or standard Central Office line with any conventional analog phone.

The **K-1500-5KB** is designed to be compatible with Viking's **E-10, E-15, E-20, K-1500-E** and **K-1500-EHF** emergency, elevator or courtesy phones. The **K-1500-5KB** is line powered and comes complete with an internal battery to retain programming for up to one year. The **K-1500-5KB** also allows incoming calls and can block fraudulent outgoing calls.

<http://www.VikingElectronics.com>

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Features

- Converts standard phones to Hot-Line phones
- Stores up to an 18 digit speed dial number
- Provides Touch Tone or 10/20pps pulse dialing
- Programmable four second pauses
- Selectable fraudulent outbound call blocking
- Telephone line powered
- Can be operated from a dry contact closure
- Eliminates dedicated line charges
- Operates on any standard C.O., PABX or Centrex lines
- Keypad for easy programming

Applications

- Replaces leased ring down circuits
- Security and emergency phones
- Elevator phones
- Hotel/motel, airline or rental car reservations
- Automatic long distance (alternate carrier) prefix dialing
- Apartment security
- Catalog sales
- Money machines
- Emergency alarm dialing

Specifications

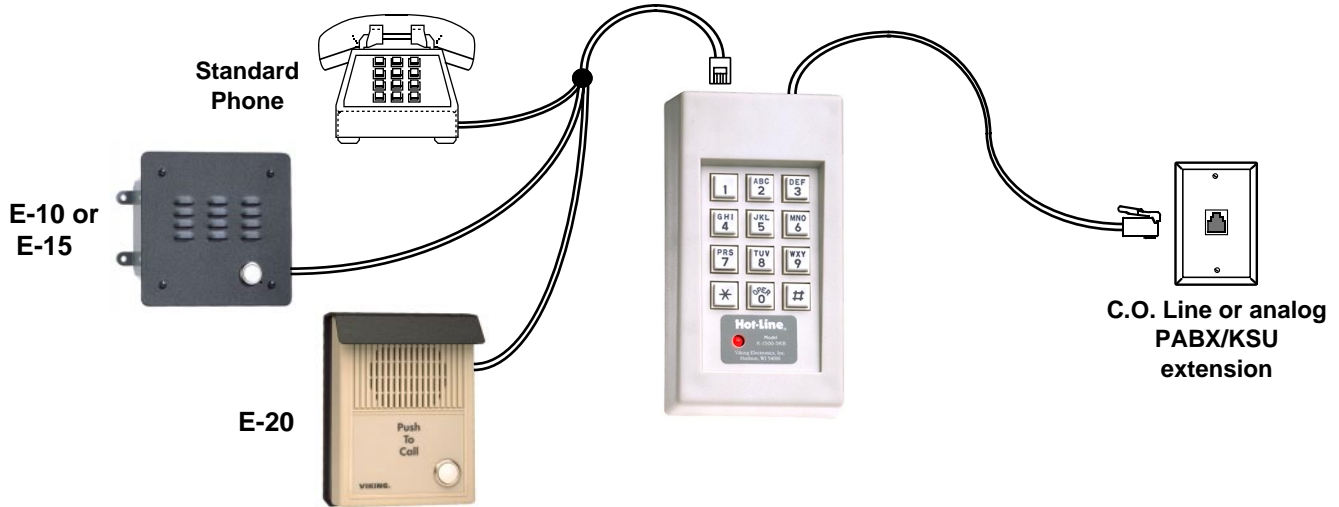
- Power:** Telephone line powered (20 VDC/20mA minimum)
- Dimensions:** 152mm x 83mm x 45mm (6" x 3.25" x 1.75")
- Shipping Weight:** .57 Kg (1.25 lbs)
- Environmental:** 0° C to 32° C (32° F to 90° F) with 5% to 95% non-condensing humidity
- Connections:** Standard RJ-11 modular jacks
- Battery Back-Up:** One year, 9 volt battery provided
- DTMF Dialing Speed:** -3dBm, 100msec DTMF tones with 120msec breaks between tones
- Pulse Dialing Speed:** Switch selectable 10 or 20pps

Sales...(715) 386-8861

Made in the U.S.A.

Installation

Connect the **K-1500-5KB** as shown below. **Note:** *E-10, E-15 and E-20 require a minimum 48V talk battery.*



Programming

A. Programming the Speed Dial Number

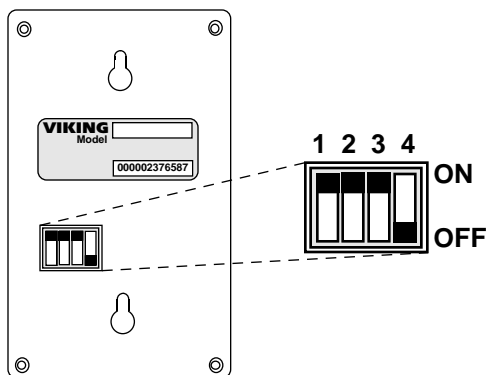
1. Install as shown above, then push and HOLD the * button on the **K-1500-5KB** key pad.
2. While holding the star button:
 - a. Take the phone connected to the **K-1500-5KB** off-hook.
 - b. Using the key pad on the **K-1500-5KB**, enter the number you wish the **K-1500-5KB** to dial. Use digits 0 - 9 and a # for a four second pause.
3. Hang up the telephone connected to the **K-1500-5KB**.
4. Release the * key.

Note: *The K-1500-5KB must be specially programmed to dial a Touch Tone * or #. If your application requires dialing a * or a #, retrieve Fax Back Document 306 or contact Viking technical support at (715) 386-8666*

B. Blocking Fraudulent Calls

This feature eliminates Touch Tone phone users from making fraudulent outbound calls. The **K-1500-5KB** will momentarily hang up upon detection of Touch Tones from the phone. To activate this feature, place dip switch 3 in the ON position and dip switch 4 in the OFF position.

Note: *Certain voices may sound like Touch Tones and may create mid conversation disconnection with this feature enabled. If this symptom is present, disable this feature or contact Viking Technical Support for other methods of handling toll abuse.*



Sw	Position	Function
1	ON	Tone dialing
1	OFF	Pulse dialing
2	ON	20 pps dialing
2	OFF	10 pps dialing
3	ON	Restricts Touch Tone dialing
3	OFF	Allows Touch Tone dialing
4	ON	Touch Tone dialing will stop the K-1500-5KB
4	OFF	Touch Tone dialing will NOT stop K-1500-5KB

C. Dialing an Emergency Number After a Specified Time Out

This feature allows Touch Tone phones connected to the **K-1500-5KB** to be used in a normal fashion. If the phone comes off-hook and no Touch Tones are detected by the **K-1500-5KB** for the total number of programmed pauses, the **K-1500-5KB** will dial an emergency number. The dialer can be programmed to pause in any four second increment prior to dialing. Entering a **#** anywhere in the programmed dialing string will provide a four second pause.

Note: Each four second pause uses one digit of the 18 digit programming capacity.

D. Programming Examples

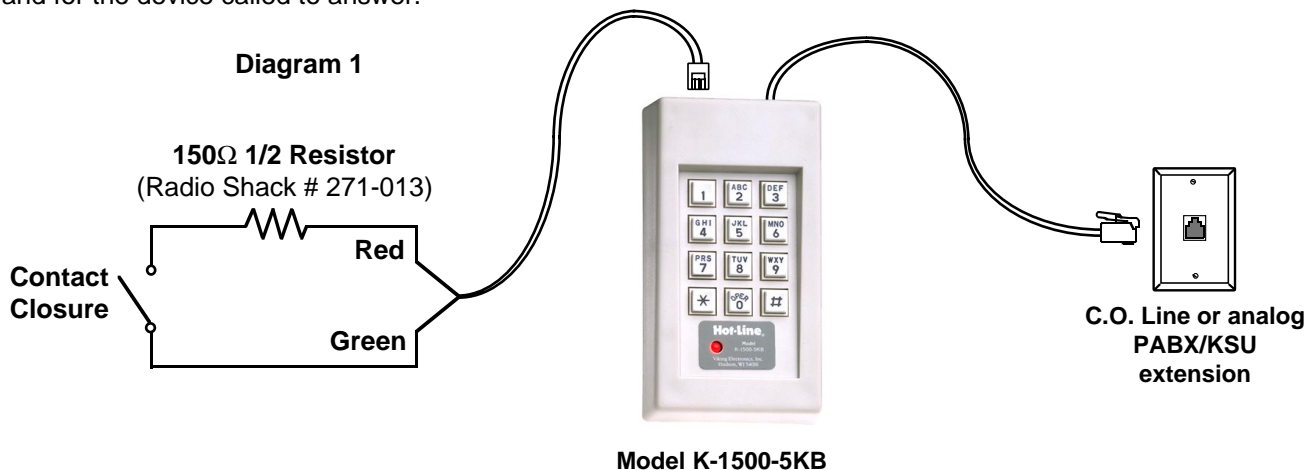
1. Storing 1-715-386-8861 as the programmed number.
 - a. Follow steps 1 - 2 in section A.
 - b. Enter : **1 715 386 8861**.
 - c. Hang up the phone.
 - d. Release the ***** key.
2. Storing a 9, a four second pause then 1-715-386-8861.
 - a. Follow steps 1 -2 in section A.
 - b. Enter: **9 # 1 715 386 8861**.
 - c. Hang up the phone.
 - d. Release the ***** key.
3. Storing 911 as the programmed number so that, if the phone goes off-hook and no Touch Tones are entered for twelve seconds, the **K-1500-5KB** will dial 911.
 - a. Follow steps 1 - 2 in section A.
 - b. Enter: **## # 911**.
 - c. Hang up the phone.
 - d. Release the ***** key.

Note: Dip switch 3 must be OFF and dip switch 4 must be ON for this application.

Typical Applications

A. Operating the K-1500-5KB from a Contact Closure

In certain emergency applications, the **K-1500-5KB** can be used to alert someone that an alarm has occurred. In all applications, the contact closure must be maintained (closed) longer than the time required to dial the number and for the device called to answer.



B. Using the K-1500-5KB to Call a Beeper

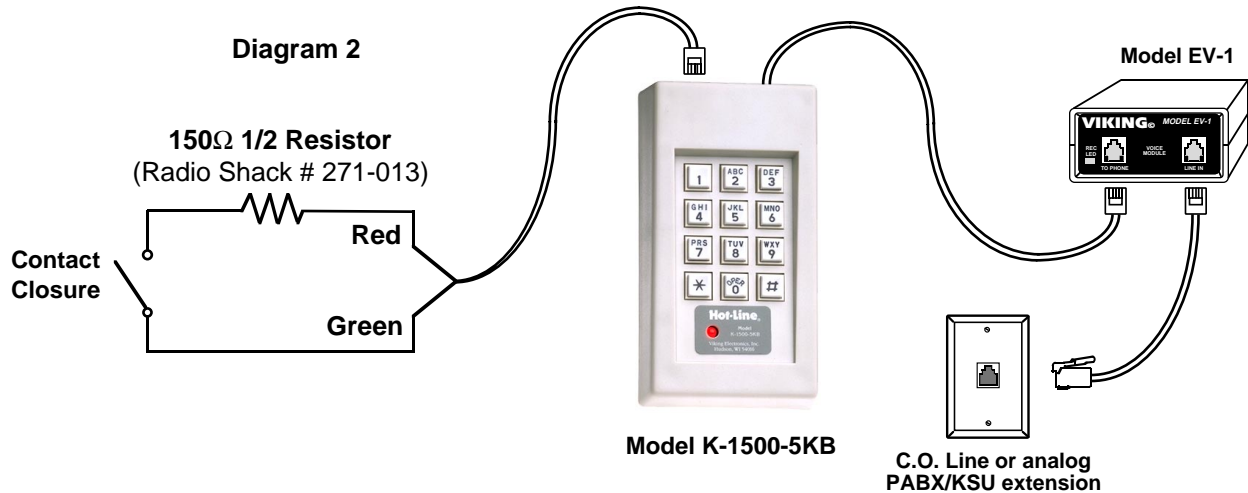
In this application, the installer programs the **K-1500-5KB** to dial the pager access number, then programs enough four second pauses to allow the paging system to answer followed by an identification code (See **Diagram 1** above).

Note: Each four second pause uses one digit of the 18 digit programming capacity.

C. Using the K-1500-5KB in Conjunction with an Announcer to Identify a Calling Location

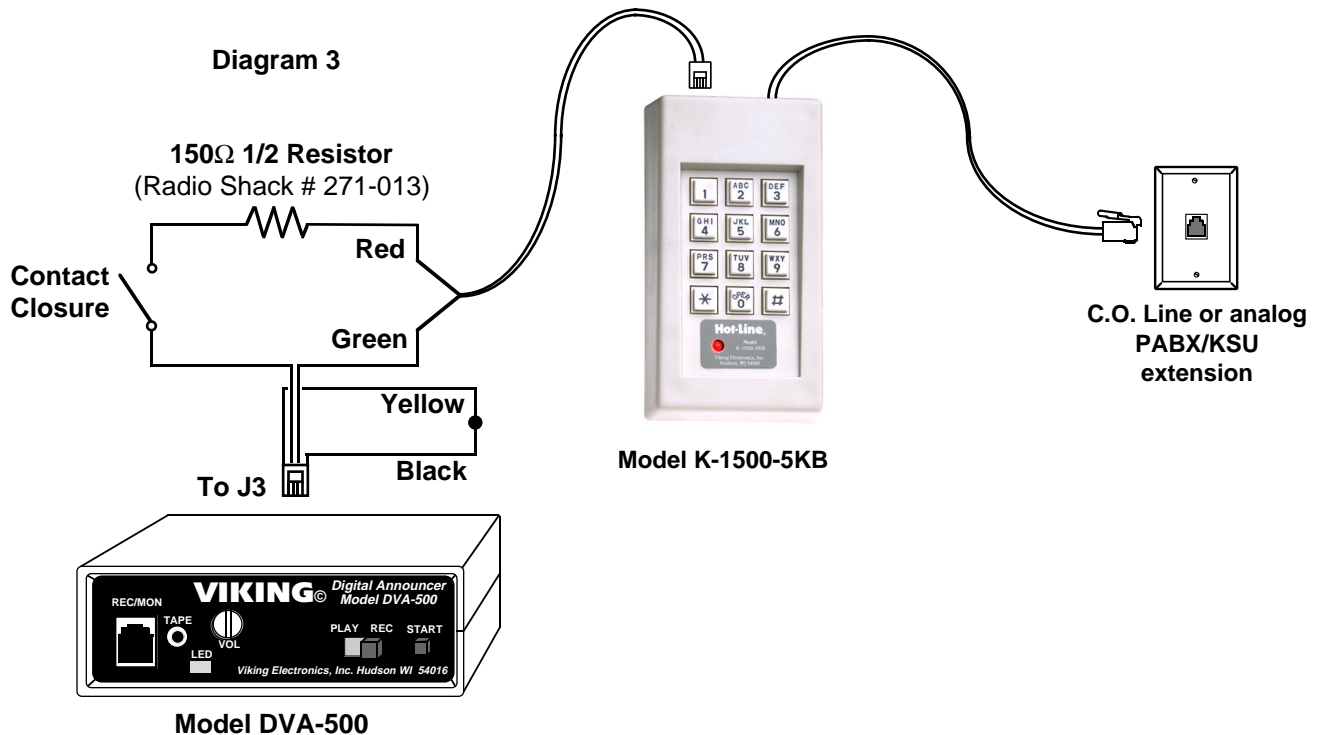
1. EV-1 Emergency Voice Announcer (Fax Back Document 135)

A **Viking** model **EV-1** can be placed in series with the line connected to the **K-1500-5KB** (See **Figure 2**) to add an automatic voice identification/alarm message. The **EV-1** is capable of recording up to a 10 second message. Example: "Attention, the burglar alarm has been activated at ACME Incorporated. Please contact the authorities." The **EV-1**'s message can be recorded locally or remotely and can be programmed to repeat every 3 or 8 seconds. **Note:** When recording the **EV-1**, do not use the # key to stop the recording. The **EV-1** must be allowed to time out.



2. DVA-500 Digital Announcer (Fax Back Document 115)

If a longer recording is required, a **Viking** Model **DVA-500** may be used (See **Figure 3**). The **DVA-500** comes standard with 16 seconds of digital record time and is expandable to 32 seconds, by installing a **Viking DRAM-32** memory expansion kit. When the contact is closed, the **DVA-500** seizes the phone line and the **K-1500-5KB** dials the preprogrammed number. The **DVA-500** then repeats the message until the closure is opened.



Product Support Line...(715) 386-8666

Fax Back Line...(715) 386-4345

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