Emergency Phones without Auto Dialing

The K-1500 Emergency Phones provide reliable handset or handsfree emergency communication.

The K-1500-E and K-1500-EHFA can be connected directly to a C.O. line or analog PABX/KSU station when used in conjunction with a hot-line dialer or programmed ring down circuit. The phones can also be used with Viking’s DLE-200B ring down circuit.

When the button is pressed, the K-1500-EHFA will come off hook until its intelligent call progress detection automatically hangs it up. During this time, the user may converse handsfree. Alternatively, standard handset communication is used with the K-1500-E.

The K-1500-E and K-1500-EHFA components conform to industry-set standards and are mounted on a formed aluminum panel, finished in red powder paint for easy visibility.

Features

- Handsfree or handset models available
- Phone line powered
- No dial pads
- Designed to mount in a standard emergency phone enclosure (10” x 7” x 3”)
- Built for easy installation and simple operation

K-1500-E Features

- Hearing aid compatible handset with volume control
- Use on any analog ringdown circuit

K-1500-EHFA Features

- Intelligent call progress detection for automatic hang-up on CPC, silence, busy signal or timeout
- Alternate action “call” button to place or cancel a call
- Selectable auto-answer feature allows remote monitoring
- Two-way handsfree communication
- Vandal resistant metal push button
- Programmable maximum call length
- Programmable VOX (mic/speaker) switching speed
- Adjustable mic and speaker volume
- Use on an analog ringdown circuit that provides CPC, busy, Return to dial tone or silence when called phone hangs up

Applications

- Commercial, industrial or residential elevators
- Use in conjunction with a Viking K-1900-5 Dialer or a K-1900-30 Multi-Number Dialer on C.O. lines or analog PABX/KSU stations
- Use on a programmed ringdown circuit of an analog PABX/KSU station

Specifications

Power: Telephone line powered (18V DC/20mA minimum)
Dimensions: 174mm x 251mm x 63.5mm (6.8” x 9.875” x 2.1”)
Shipping Weight: K-1500-E: 1.13 kg (2.5 lbs), K-1500-EHFA: .91 kg (2 lbs)
Environmental: 0°C to 32°C (32°F to 90°F) with 5% to 95% non-condensing humidity
K-1500-EHFA Speaker Volume: Approximately 70db maximum @ 1m
K-1500-EHFA Ring Voltage: 25V AC RMS minimum
K-1500-EHFA CPC Disconnect Time: 300ms minimum
K-1500-EHFA REN: 0.8A
Connections: K-1500-E: (1) RJ11 jack, K-1500-EHFA: (1) 2-position terminal block
A. Installing the K-1500-E or K-1500-EHFA

The K-1500-E and K-1500-EHFA are designed to be mounted inside of a standard elevator phone box: 10" high x 7" wide x 3" deep (Example: Allen Tel Outlet Box, part # GB62247).
B. Wiring the K-1500-E

Rear View of the K-1500-E

C. Wiring the K-1500-EHFA

Rear View of the K-1500-EHFA

* Note: To increase surge protection, loosen the PCB mounting screw labeled (as shown above) and fasten a wire with spade terminal (included) from the mounting screw to Earth Ground (grounding rod, water pipe, etc.)

** Note: The gel-filled (water-tight) butt connectors are designed for insulation displacement on 19-26 gauge wire with a maximum insulation of 0.082 inches. Cut off stripped wire ends before terminating.

Programming the K-1500-EHFA

A. Adjusting Speaker Volume

The SPKR VOL pot can be adjusted to increase or decrease the speaker volume to the level desired as shown right.

B. Adjusting the Microphone Volume

In certain noisy locations (background traffic, machinery or wind), the microphone volume may need to be decreased. A symptom of this is one-way talk path, in which the distant party cannot be heard over the speaker. A MIC VOL pot is provided on the K-1500-EHFA for increasing or decreasing the microphone volume. Note: If the microphone volume is set too high or too low, one-way talk path may occur.

C. DIP Switch Programming

1. Auto Answer Feature ON/OFF (DIP Switch 1)

   DIP switch 1 is for turning the Auto Answer feature ON and OFF. The K-1500-EHFA is factory set to auto answer when an inbound call is detected.

2. Dial Tone Detection ON/OFF (DIP Switch 2)

   With DIP switch 2 in the ON position, if the K-1500-EHFA detects more than 5 seconds of continued dial tone, the unit will automatically disconnect. If the K-1500-EHFA is installed on a continuously noisy line, it may detect the noise as dial tone and automatically disconnect. If this happens, turn the dial tone detection (DIP switch 2) OFF.

* Note: These are the factory settings.
3. Programming Mode ON/OFF (DIP Switch 3)
With DIP switch 3 in the OFF position, the **K-1500-EHFA** is in the “Normal Operation Mode” (factory setting). By placing DIP switch 3 in the ON position, the **K-1500-EHFA**’s programming mode is enabled. The programming mode is used for adjusting the Call Length Time Out, Silence Time for automatic disconnect and the Talk/Listen delay (VOX switching speed). These features are set from the factory and normally do not need adjustment. If adjustment is necessary, see Programming sections D - I.

D. Accessing the Programming Mode
The **K-1500-EHFA** can be programmed from any Touch Tone phone using a telephone line, Viking model **C-200** or **C-2000A** Entry Phone Controller, analog PABX/KSU station or a Viking model **DLE-200B** Line Simulator.

<table>
<thead>
<tr>
<th>Step 1.</th>
<th>Move DIP switch 1 to the <strong>ON</strong> position (sets unit to answer incoming calls - see section C).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2.</td>
<td>Move DIP switch 3 to <strong>ON</strong> (incoming calls automatically enter the programming mode - see section C).</td>
</tr>
<tr>
<td>Step 3.</td>
<td>From a Touch Tone phone call the line attached to the <strong>K-1500-EHFA</strong>.</td>
</tr>
<tr>
<td>Step 4.</td>
<td>When the <strong>K-1500-EHFA</strong> answers, 2 beeps will be heard and you will automatically enter the programming mode.</td>
</tr>
<tr>
<td>Step 5.</td>
<td>When finished programming, enter “<strong>0000</strong>” to exit programming and move DIP switch 3 back to <strong>OFF</strong> (see section C).</td>
</tr>
</tbody>
</table>

E. Quick Programming Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Wait for Beep(s)</th>
<th>Enter Time Value</th>
<th>Wait for 2 Beeps</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>beep</td>
<td>111...</td>
<td>beep beep</td>
</tr>
<tr>
<td>00</td>
<td>beep</td>
<td>111...</td>
<td>beep beep</td>
</tr>
<tr>
<td>000</td>
<td>beep</td>
<td>111...</td>
<td>beep beep</td>
</tr>
<tr>
<td>0000</td>
<td>3 beeps</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See **Table A** below

F. Programming Beeps

If a valid “Feature” is entered, a single beep will be heard. If an invalid “Feature” (five or more zeros) is entered, 3 beeps will be heard and the **K-1500-EHFA** will hang up. If a valid “Time” is entered 2 beeps will be heard. If an invalid “Time” is entered, 3 beeps will be heard and you will have 20 seconds to enter the next valid “Feature”.

G. Call Length Time Out

This feature selects the maximum length of time that calls can be connected. Programmable in increments of 1 minute up to a maximum of 9 minutes. Programming nothing in the time value location will disable the call length time out. With the call length disabled, the **K-1500-EHFA** phone must rely on CPC, busy, silence or return dial tone to hang-up.

Use the chart at the right. *Note: The factory default is 5 minutes.*

<table>
<thead>
<tr>
<th>Time Value</th>
<th>Call Length Time Out</th>
<th>Silence Time Out</th>
<th>Talk/Listen Delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 min</td>
<td>10 sec</td>
<td>.1 sec</td>
</tr>
<tr>
<td>11</td>
<td>2 min</td>
<td>20 sec</td>
<td>.2 sec</td>
</tr>
<tr>
<td>111</td>
<td>3 min</td>
<td>30 sec</td>
<td>.3 sec*</td>
</tr>
<tr>
<td>1111</td>
<td>4 min</td>
<td>40 sec*</td>
<td>.4 sec</td>
</tr>
<tr>
<td>11111</td>
<td>5 min*</td>
<td>50 sec</td>
<td>.5 sec</td>
</tr>
<tr>
<td>111111</td>
<td>6 min</td>
<td>60 sec</td>
<td>.6 sec</td>
</tr>
<tr>
<td>1111111</td>
<td>7 min</td>
<td>70 sec</td>
<td>.7 sec</td>
</tr>
<tr>
<td>11111111</td>
<td>8 min</td>
<td>80 sec</td>
<td>.8 sec</td>
</tr>
<tr>
<td>10 or more</td>
<td>Disabled</td>
<td>Disabled</td>
<td>Error</td>
</tr>
</tbody>
</table>

H. Silence Time Out

This feature selects the length of time that calls will remain connected without voice activity. Programmable in increments of 10 seconds up to a maximum of 90 seconds. To disable the silence time out, program nothing in the time value location. Use the chart at the right.

*Note: The factory default is 40 seconds.*

I. Talk/Listen Delay (VOX Switching Speed)

This feature selects switching time between talk and listen modes (VOX switching time). Use the chart above.

*Note: The factory default is .3 seconds.*

**Operation**

When the push button is pressed, the **K-1500-EHFA** phone goes off-hook, much like a standard speaker phone. In the event that the line is busy, the **K-1500-EHFA** will hang-up. The **K-1500-EHFA** will also automatically hang up on CPC, silence, busy signal, return to dial tone or time out. If programmed to auto-answer (DIP switch 1 **ON**), the **K-1500-EHFA** will also answer any incoming call.

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