

VIKING ELECTRONICS, INC.
Architectural and Engineering Specifications
Model **E-1600A** Hands Free Emergency Phone
Revision Date 5-7-03

1.0 GENERAL DESCRIPTION

- 1.1 The Emergency Phone shall be a vandal resistant, hands free speaker phone communications device that is Americans with Disabilities Act (ADA) compliant. The unit shall be wall or pole mounted and constructed of heavy gauge steel.
- 1.2 The Emergency phone shall be a Viking Electronics model **E-1600A**, no substitutions, and have a momentary tactile push button switch labeled "PUSH FOR HELP" and a red LED light labeled "CALL CONNECTED". The unit shall be designed so a single push of the button will initiate automatic dialing of a up to 5 preprogrammed telephone numbers and or up to two Central Station receiver numbers. The phone will continue to cycle through the programmed phone numbers until answered. Upon answering, the unit shall be capable of playing up to a 16 second voice message to identify the location of the emergency call and light the call connected LED light. The caller shall be able to converse hands free with the called party (emergency personal). The unit shall be phone line powered with non-volatile memory requiring no battery back-up.

2.0 CONSTRUCTION

- 2.1 The chassis shall be constructed of 16 gauge cold rolled steel.
- 2.2 The finish shall be bright red polyester wrinkle powder paint.
- 2.3 The labeling shall be silk screened with bright white U.V. stable silk screen ink.
- 2.4 The signage shall be constructed of 0.032 inch thick aluminum with 0.625 inch tall "HELP" letters for the push button switch, Braille embossed to the height of approximately 0.025 inch and symbols/ letters embossed to a height of approximately 0.032 inch for ADA 2002 compliance.
- 2.5 The chassis shall measure 4.00" W x 5.25" H x 2.00" D.
- 2.6 The push button switch shall have an electrical life of 500,000 cycles.
- 2.7 The speaker and microphone shall be protected by a louvered front panel and a screen to provide a barrier against vandalism and moisture.
- 2.8 The bottom of the chassis shall provide a 3/4 inch knock out for a conduit connector.

3.0 MOUNTING

- 3.1 The unit shall attach to a single gang electrical box, a 4" x 4" electrical junction box, recessed into an elevator phone box or mount directly to a flat surface of a wall or pole.

4.0 ELECTRICAL

- 4.1 The unit shall be telephone line powered, requiring no battery back up.
- 4.2 The unit shall require one dedicated twisted pair communication wire. 26 AWG minimum.
- 4.3 The unit shall require a minimum loop current of 20mA and a minimum Talk Battery voltage of 24V DC.

5.0 FEATURES

- 5.1 All programming shall be stored in non-volatile memory (no batteries required).
- 5.2 Unit shall have advanced call progress detection, allowing for automatic redialing, automatic "Call Connected" light and automatic digital voice and Touch Tone location identification.
- 5.3 Unit shall be capable of Touch Tone or Pulse dialing.
- 5.4 Unit shall have hands free VOX speaker phone operation.
- 5.5 Unit shall be phone line powered.
- 5.6 Unit shall be programmable from a remote telephone via Touch Tone keypad entry.
- 5.7 Unit shall be capable of dialing up to five 20 digit phone numbers.
- 5.8 Unit shall be capable of dialing one 20 digit Central Monitoring Station receiver number and one 20 digit Central Monitoring Station voice number.
- 5.9 Unit shall automatically hang up on CPC (Calling Party Control), silence, busy signal, return to dial tone, time-out or a Touch Tone command.
- 5.10 Unit shall remain operational within a temperature range of -15°F to 130°F.
- 5.11 Unit shall be programmable to automatically answer incoming calls.
- 5.12 Unit shall have up to 16 seconds of non-volatile digital voice record time for location identification.
- 5.13 Unit shall have a programmable 6 digit security code for accessing the programming mode.
- 5.14 Unit shall have a programmable VOX switching speed from .1 to .9 seconds.
- 5.15 Unit shall have a programmable maximum call time of 1 to 9 minutes or disabled.
- 5.16 Unit shall have a programmable silence time out from 10 to 90 seconds or disabled.
- 5.17 Unit shall have a dial next number on ring no answer feature, programmable to dial the next number after 2 to 9 rings or disabled.
- 5.18 Unit shall have a programmable enable or disable dial next number on busy feature.
- 5.19 Unit shall have a programmable pulse dialing speed of 10 or 20 pulses per second.
- 5.20 Unit shall have a programmable announcement delay from 1 to 99 seconds or disabled (automatic play back).
- 5.21 Unit shall have a programmable announcement repeat from 1 to 9 times or every 8 seconds.
- 5.22 Unit shall have a programmable Touch Tone identification number from 1 to 20 digits or disabled.
- 5.23 Unit shall have a call connected LED programmable to light automatically when the call is answered or only light after a Touch Tone * is detected from the distant party.
- 5.24 Unit shall have volume adjustment controls for the speaker and microphone.
- 5.25 Unit shall have a dip switch selection allowing the push button to connect calls only or alternately connect and disconnect calls.
- 5.26 Unit shall have a dip switch selection for automatically answering incoming calls or not answering incoming calls.
- 5.27 Unit shall have a dip switch selection for placing the unit in the learn mode where answered incoming calls are automatically entered into the programming mode without a security code.
- 5.28 Unit shall be compatible with the following 4 different Central Monitoring Station formats:
Ademco Contact ID, Ademco High Speed, 4 + 1 Express, and 4 + 2 Express.
- 5.29 Unit shall comply with Part 68 of the FCC rules for the United States.

6.0 OPTIONS

- 6.1 Unit shall be compatible for remote testing and diagnostics via Viking model PB-100 polling system.
- 6.2 Unit shall be compatible with Viking model BLK-3-EWP blue strobe light kit.
- 6.3 Unit shall be compatible with Viking models LDB-1, LDB-2 and LDB-3 for activating a contact during ringing (models LDB-2/3 only) and on/off hook conditions for controlling lights, cameras, etc.

7.0 WARRANTY

- 7.1 Unit shall be warranted for a period of one year from the date of purchase. Reference manufacturers warranty for further details.

8.0 MANUFACTURER

- 8.1 The manufacturer shall be Viking Electronics Inc., (715) 386-8861, 1531 Industrial St., Hudson Wisconsin, 54016, www.vikingelectronics.com THERE ARE NO EQUIVALENTS.