### Vandal Resistant Hot-Line Panel Phone

The K-1900-7 Series panel phones will auto-dial a 1-32 digit programmable phone number each time the handset is lifted. The unit will touch tone or pulse dial and will not auto-dial on incoming calls.

The K-1900-7 Series housing consists of a heavy gauge stainless steel panel, an armored cable, a heavy duty handset, and an all metal cradle. The K-1900-7 Series phone can be easily touch tone programmed at the shop or installation site. All programming is stored in non-volatile memory.

The K-1900-712L and K-1900-712L-EWP feature a 12” long armored cable with an internal stainless steel lanyard for additional cable strength.

The K-1900-7-EWP and K-1900-712L-EWP share all of the features of the K-1900-7 and K-1900-712L in addition to Enhanced Weather Protection (EWP) for outdoor installations where the unit is exposed to precipitation or condensation. EWP products are designed to meet IP66 standards and may feature foam rubber gaskets, sealed connections, gel-filled butt connectors, as well as potted circuit boards with internally sealed, field-adjustable trim pots and DIP switches for easy on-site programming. For more info on EWP, see DOD 859.

**Note:** If a ringer is required, use an external unit such as the Viking SR-1 (DOD 477), or LPR-1 (DOD 550).

### Features
- **Vandal Resistant Features:** 12 gauge (0.105” thick) 316 stainless steel panel with permanent laser etched graphics, armored cable, metal cradle and hex drive mounting screws
- **Weather Resistant Features:** Marine grade 316 stainless steel faceplate and screws
- Auto dials one programmable speed dial number (up to 32 digits)
- Touch tone or pulse dialing
- Non-volatile memory (no batteries required)
- Operates on analog PABX and key system extensions or analog Centrex and CO lines
- Programmable 6 digit security code
- Touch tone programmable
- Optional Enhanced Weather Protection (EWP) available - EWP products are designed to meet IP66 Ingress Protection Rating, see DOD 859
- 12” armored handset cord on K-1900-712L and K-1900-712L-EWP
- 36” armored handset cord on K-1900-7
- 54” armored handset cord on K-1900-7-EWP
- Programmable pre-dial pause
- Blocks fraudulent calls from hand held pocket dialers
- Hearing aid compatible amplified handset with sealed push button volume control
- Programmable default volume level
- Programmable volume control disable
- Flush mount using a standard double-gang box (not included)
- Surface mount using an optional VE-5x10 surface mount box (not included, see DOD 424)

### Applications
- Catalog sales
- Kiosks
- Courtesy and customer service phones
- Automated tellers (ATM’s)
- Hot-line reservation phones
- Security and emergency phones
- Replaces leased ringdown circuits
- Gate/entrance communication in noisy locations (diesel trucks, factory noise, etc.)

### Specifications
- **Power:** Telephone line powered (20V DC/18mA minimum)
- **Standard Dimensions:** 5.0” x 10.0” x 5.1” (127 mm x 254 mm x 130 mm)
- **EWP Dimensions:** 5.0” x 10.0” x 5.18” (127 mm x 254 mm x 132 mm)
- **Shipping Weight:** 4 lbs (1.8 kg)
- **Operating Temperature:** -30°F to 140°F (-34°C to 60°C)
- **Humidity - Standard Model:** 5% to 95% non-condensing
- **Humidity - EWP Model:** Up to 100% condensing
- **K-1900-712L(EWP) Handset Cable Length:** 12” to 12.7” (31 cm to 33 cm)
- **K-1900-7 Handset Cable Length:** 34” to 37” (86 cm to 94 cm)
- **K-1900-7-EWP Handset Cable Length:** 52” to 57” (132 cm to 145 cm)
- **Touch Tone Dial Speed:** Normal = 120ms on/off, Fast = 50ms on/off
- **Pulse Dial Speed:** Normal = 10 pps, Fast = 20 pps
- **Connections:** (2) gel-filled butt connectors

www.VikingElectronics.com
Information: 715-386-8861
To install the K-1900-7 panel phone, attach the panel to an existing double gang box (with minimum dimensions shown below) using the provided screws or use the optional VE-5x10 weather resistant surface mount box. **Note:** Four extra screws and nuts are provided to fill the unused mounting holes. The optional VE-5x10 surface mount box (shown below) is designed to be surface mounted to a wall, post, single gang box or a VE-GNP or VE-GNP-2 goose neck pedestal (shown right). The K-1900-7 can also be mounted in an optional VE-9x20 Weatherproof Enclosure (DOD# 413). **Note:** When mounting a K-1900-7-EWP in a VE-9x20, the length of the handset cable must be reduced. Use a 3/32" hex key or bit to loosen the set screw in the brass handset cable retainer. Pull approximately 18 inches of the cable through the panel and retighten the set screw.

**IMPORTANT:** Electronic devices are susceptible to lightning and power station electrical surges from both the AC outlet and the telephone line. It is recommended that a surge protector be installed to protect against such surges.

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### Installation

![Diagram of K-1900-7 Panel Phone Installation](image)

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### Programming

#### A. Security Code

A six digit number may 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:

- **Step 1.** Access programming as shown in section B.
- **Step 2.** Enter your new security code followed by #47.
- **Step 3.** To exit programming simply hang up the K-1900-7.

**Note:** The security code must be six digits in length and **MUST NOT** contain a * or #. If you have forgotten your security code, see section "B, 2. Accessing the Programming Mode Locally Without a Security Code."

#### B. Accessing the Programming Mode

1. **Accessing the Programming Mode Locally with a Security Code**

- **Step 1.** Connect the green and red wires on the K-1900-7 to a C.O. line or analog PABX/KSU station.
- **Step 2.** From a Touch Tone phone, call the line connected to the K-1900-7.
- **Step 3.** Take the K-1900-7 off-hook (remove handset from the cradle). From the calling phone enter “*” followed by the six digit security code, factory set to 845464 (see section A above). A double beep will indicate that programming has been entered.
- **Step 4.** Program as shown in sections D - I.
- **Step 5.** To exit programming, hang up both phones.

2. **Accessing the Programming Mode Locally Without a Security Code (Learn Mode)**

- **Step 1.** Connect the green and red wires on the K-1900-7 to a C.O. line or analog PABX/KSU station.
- **Step 2.** Set DIP switch 1 to ON.
- **Step 3.** From a Touch Tone phone, call the line connected to the K-1900-7.
- **Step 4.** Take the K-1900-7 off-hook (remove handset from cradle). A double beep should be heard indicating you have entered programming.
- **Step 5.** Program from calling phone as shown in sections D - I.
- **Step 6.** Set DIP switch 1 back to OFF.
- **Step 7.** To exit programming, simply hang-up the phones.

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

<table>
<thead>
<tr>
<th>Switch</th>
<th>Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ON</td>
<td>Learn Mode</td>
</tr>
<tr>
<td>1</td>
<td>OFF</td>
<td>Normal Operation (factory setting)</td>
</tr>
</tbody>
</table>

Note: DIP switches 2 and 3 are not used and should remain in the OFF position.

D. Programming Features Quick Reference

<table>
<thead>
<tr>
<th>Description</th>
<th>Enter Digits</th>
<th>+</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed dial number</td>
<td>1-32 digit (0-9)</td>
<td>#</td>
<td>00</td>
</tr>
<tr>
<td>* (anywhere in the speed dial number)</td>
<td>***</td>
<td></td>
<td></td>
</tr>
<tr>
<td># (anywhere in the speed dial number)</td>
<td>**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Set dialing speed to normal (Touch Tones: 120ms on/off, Pulse: 10 pps) (factory setting)</td>
<td>*1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Set dialing speed to fast (Touch Tones: 50ms on/off, Pulse: 20 pps)</td>
<td>*2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block hand held pocket dialers (factory setting)</td>
<td>*3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allow hand held pocket dialers</td>
<td>*4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Normal pre-dial pause (approximately 1.4 sec) (factory setting)</td>
<td>*5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short pre-dial pause (approximately 800 ms)</td>
<td>*6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To add a one second pause at any point in the dialing string</td>
<td>#7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To add a four second pause at any point in the dialing string</td>
<td>*7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toggle between Pulse and Touch Tone dialing (see section I)</td>
<td>*8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Set default volume 1-4 (1 = min, 4 = max) and control (1 = enabled, 2 = disabled) (factory 1,1)</td>
<td>2 digits (1-4,1-2)</td>
<td>+</td>
<td>46</td>
</tr>
<tr>
<td>Change security code</td>
<td>6 digits (0-9)</td>
<td>+</td>
<td>47</td>
</tr>
<tr>
<td>To clear the speed dial number and return all programming to factory settings</td>
<td>#</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Special features such as *, #, a mode change and a pause, use single digits in the programming memory.

E. Dialing Speed

To set the dialing speed, access the Programming mode as shown in section B, then choose a speed. To set the dialing speed to Normal (Touch Tone: 120ms on/off, Pulse: 10pps), enter #1. To set the dialing speed to Fast (Touch Tone: 60ms on/off, Pulse: 20pps), enter #2.

F. Hand Held Pocket Dialers

The K-1900-7 is programmed to hang-up if it detects Touch Tones it did not generate. This helps prevent toll fraud from hand held dialers. To set the K-1900-7 to block/allow dialing from external devices, access the Programming mode as shown in section B, then choose block or allow. To Block hand held dialers, enter #3. To Allow Touch Tones from external devices, enter #4.

G. Pre-Dial Pause

In the single number auto-dialer mode, the time from when the handset is taken off-hook until the K-1900-7 auto-dials can be programmed. Access the Programming mode (section B), then choose a pause length. To set the pause length to Normal (approximately 1.4 seconds), enter #5. To set the pause length to Short (approximately 800ms) enter #6.

H. Pauses in the Dialing String

To set pauses in the dialing string, access the Programming mode as shown in section B, then enter #7 to put a 4 second pause anywhere in the dialing string, or #7 for a 1 second pause.

I. Programming Examples

These examples would be entered after accessing the Programming mode as shown in section B.

<table>
<thead>
<tr>
<th>To Program the K-1900-7 to...</th>
<th>Enter Digits</th>
<th>Enter Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>...Touch Tone dial 555-1234</td>
<td>5551234</td>
<td>#00</td>
</tr>
<tr>
<td>...pulse dial 555-1234 followed by a Touch Tone 9</td>
<td>*8 5551234 *8 9</td>
<td>#00</td>
</tr>
<tr>
<td>...dialed 9, a 4 second pause and then 555-1234</td>
<td>9 *7 5551234</td>
<td>#00</td>
</tr>
<tr>
<td>...set the dialing speed to fast</td>
<td>#2</td>
<td></td>
</tr>
<tr>
<td>...clear the speed dial number</td>
<td></td>
<td>00</td>
</tr>
</tbody>
</table>

Operation

A. Single Number Auto Dialer

When the K-1900-7 is taken off-hook, it will speed dial the phone number programmed in memory location #00. The K-1900-7 can be programmed to block hand held dialers (see Programming section F).

B. Handset Receiver Volume Adjustment

The K-1900-7 has a sealed push button switch located on the inside handle of the handset. Each push of the button will rotate through the receiver volume levels if enabled. After four actuations, the receiver volume is back to its default setting. Hanging up the phone will automatically set the receiver volume to its default setting.
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