

VIKING

TECHNICAL Practice

TELECOM SOLUTIONS FOR THE 21ST CENTURY

PB-100

**Polling Bridge and
Phone Line Interface**

May 18, 2009

Multi-Purposed PC to Phone Line Bridge with Application Software



The **PB-100** is used to provide status polling of Viking **1600A** Series Emergency Phones or remote programming of **AES-2000** Entry Systems. The **PB-100** can connect to an unused serial port on your PC or use the included RS-232 to USB converter cable to connected to a USB port. A CD is provided with these two applications along with software for programming other Viking products.

When used to poll **1600A** Series Emergency Phones, the application software allows the user to set up a list of phones to call along with a scheduled time for calling. Through the **PB-100**, each phone can be called, its ID code verified and it's mic and speaker tested. When finished, the application software logs the time of the call and the results.

When programming an **AES-2000**, the application software allows the user to manage multiple units with resident's phone numbers and access codes. By using a standard telephone connected to the **PB-100**, the recording of each tenant's name can be done. The software also supports delayed uploading the downloaded statistics.

Features

- Compatible with Windows 95, 98, ME, NT 4.0, 2000, and XP
- USB to RS-232 cable provided
- Male sub-D 9 pin cable provided
- Audio out jack for monitoring

Applications

Software Provided For:

- **1600A Series** Emergency Phone Polling
- Remote programming of **AES-2000** Accessible Entry System (**DOD# 202**)
- PC programming of **K-2000-DVA** Multi Input Voice Dialer (**DOD# 303**)

Specifications

Power: 120V AC/12V DC 500mA, UL listed adapter provided

Dimensions: 127mm x 127mm x 25mm (5" x 5" x 1.5")

Weight: 1.36 kg (3 lbs.)

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

P.C. Interface: 9-pin RS-232 (cable included)

Software/Hardware Requirements:

- IBM Compatible personal computer with an available serial port CD drive, and Windows compatible sound card
- Windows: 95 or 98 (with OLE32 updates), NT 4.0 (service pack 6 or higher), 2000 (service pack 2 or higher), or XP
- 5MB of hard drive space
- 8MB of free physical RAM

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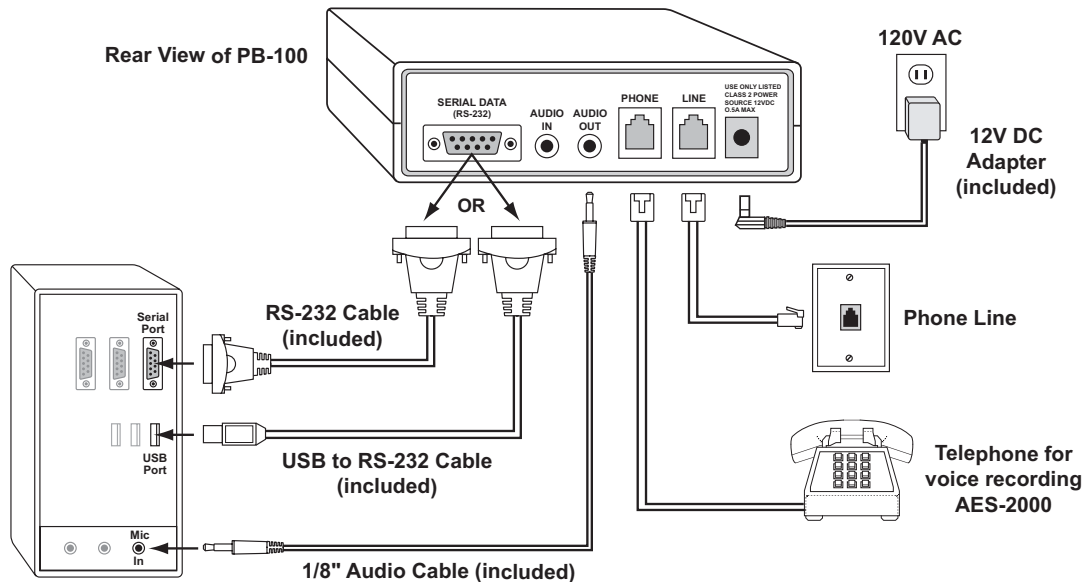
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Hardware Installation

The **PB-100** comes complete with a telco cord, serial cable, USB to RS-232 converter cable, audio cables and a 12V DC power adapter.

Step 1.	Using the telco cord, connect a phone line to the rear panel jack labeled "LINE". If the PB-100 is to be used to make AES-2000 audio recordings. A standard phone can be plugged into the "PHONE" jack.
Step 2.	Connect one end of the 9 pin serial cable into the jack labeled "SERIAL DATA" and the other end into an open serial port of the PC. If a serial port is not available, use the included RS-232 to USB cable to connect to a USB port.
Step 3.	If audio is to be used through the PB-100 , connect the "Audio In" or "Mic In" of the sound card to the "AUDIO OUT" port of the PB-100 .
Step 4.	Plug the 12V DC power adapter (included) into the rear panel power jack.



Software and Installation

A. About the Software

The CD that is included with the **PB-100** contains several different applications. The following is a brief description of the programs.

1. 1600A Series Polling Software

All Viking **1600A Series** emergency phones feature the ability to be remotely polled. The **PB-100** combined with the Polling Software allows the user to program his emergency phone numbers and locations into a centrally stored database. The polling software will dial these stored phone numbers and retrieve and poll the emergency phone for a response to verify that the phone is properly configured and operational. The Polling Software allows the user to organize the locations and phone numbers of emergency phones, as well as the date and time of polling and then stores the response of each phone polled. This is useful in maintaining and troubleshooting emergency phones without the need to send technicians on site. The **E-1600** Polling software stores and polls up to 500 locations or phone numbers. For more information, retrieve **Fax Back Document 860**.

2. AES-2000 Programming Software

The **AES-2000** Accessible Entry System can be programmed remotely using the **PB-100** and the **AES-2000** Programming Software. Both data and audio can be uploaded to the **AES-2000** including names, phone numbers, audio queues and other required programming variables. For more information, see DOD# 202.

3. Smart Terminal Diagnostic Software

Smart Terminal is diagnostic program that allows the user to send and receive data directly to a COM port of your PC. ASCII, Hex and Decimal data can be entered, decoded and sent out the selected ports. Two separate display areas allow the user to view data coming in on either port. This utility is useful for troubleshooting the connection between the **PB-100** and your PC. If an "H" followed by Enter is received by the **PB-100**, it will send back a "K" and a carriage return. Do this to assure you have the correct com port configured for the **PB-100**.

4. K-2000-DVA Programming Software

The **K-2000-DVA** Multi-Input Voice Dialer can be programmed using the included software. All phone numbers and calling parameters can be easily updated. The **K-2000-DVA** does not require the use of a **PB-100**, but rather connects directly to your PC using the included serial cable or the USB to RS-232 converter cable. Audio recordings are not supported by the PC software, see DOD# 303.

B. System Requirements

1. Hardware Requirements

- IBM Compatible personal computer with: Windows 95, 98 or ME (with OLE32 updates), Windows NT 4.0 (service pack 6 or higher), Windows 2000 (service pack 2 or higher), or Windows XP
- **PB-100** hardware
- Available RS-232 serial port or USB port
- Male sub-D 9 pin cable or USB to RS-232 converter cable (provided with **PB-100** hardware)
- Windows compatible sound card
- 5MB minimum free hard drive space for each installation
- 8MB of free physical RAM for each **Viking** application running

2. Software Requirements

- Internet Explorer or Netscape Navigator Version 4 or newer to navigate CD contents.
- Adobe Acrobat Reader® version 4.x or newer to view Product and Software Documentation.

C. Installing Software

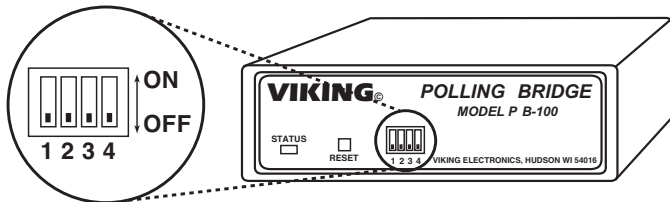
Step 1.	Connect the hardware as shown in "Hardware Installation".
Step 2.	Insert the Viking master CD to start the program.
Step 3.	Follow the instructions on the CD.

Note: If you have disabled the "Auto-Run" feature on your computer and the CD does not automatically start, double click the *setup.htm* file in the root directory of your CD drive.

D. Un-Installing Software

Step 1.	Go to "Control Panel", then select "Add/Remove Programs".
Step 2.	Select the Viking software you want to remove.
Step 3.	Click "Remove".

Programming



Switch	ON/OFF	Description
1	OFF	1600A Series polling mode enabled
1	ON	1600A Series polling mode disabled
2	OFF	AES-2000 programming disabled
2	ON	AES-2000 programming enabled
3	OFF	1600A Series mic/speaker test disabled
3	ON	1600A Series mic/speaker test enabled
4	OFF	Audio attenuation disabled
4	ON	Audio attenuation enabled

A. 1600A Series Polling

For polling **1600A** products, set Dip Switch 1 to ON and 2,3,4 to OFF. To exercise the microphone and speaker of the **1600A** product, set Dip Switch 3 to the ON position. (**Note:** The **1600A** being polled must support the microphone and speaker diagnostic.) The **PB-500** polling software must also be set up to receive the results of the diagnostic. In the Information tab, add a "G" to the end of the "Device ID Code". This signals the **PB-100** that it must perform the added test. If the **1600A** passes the test, the **PB-100** will return the extra "G".

B. AES-2000 Programming

Using the **PB-100** is the only way to program the **AES-2000**. The **PB-100** provides the modem for data transmission as well as a phone connection for recording the audio directory. Dip Switches 1 and 2 must be in the ON position 3 and 4 OFF. On some phone lines, there may be excessive noise and the **AES-2000** may have trouble receiving the data from the **PB-100**. If this happens, set Dip Switch 4 to the ON position to attenuate the unwanted noise.

Product Support Line...715.386.8666

Fax Back Line...715.386.4345

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