

TECHNICAL NOTE 07-01
WATER RESTRAINT SYSTEM (WRS)
Installing the Facility Name Using a PC Input Device
Dated: May 13, 2001 Revised May 22, 2006

Introduction

This procedure describes how to use a laptop or other PC to program the alphanumeric institution description into the WRS microcomputer.

Description

There is an 18 character alphanumeric field that appears at the top of the WRS video display. This field is used to describe the institution name and system location. This information then appears on the video monitor and is recorded by the VCR. In this way all incident information will be labeled correctly as to the institution and location.

Requirements

The alphanumeric information is inserted into the electrically erasable portion of the microcomputer memory by using a PC as a remote terminal. The following equipment is required:

1. PC or laptop computer with Windows 98 or later operating system, and serial port output available.
2. Serial cable, DB-9F female/female connectors (ie., Radio Shack p/n: 26-152)
3. Serial port null Modem adapter (ie, Radio Shack p/n: 26-264)

Procedures

1. Decide with the facility what the wording should be. The top of the display will read "HYDRO-FORCE WRS xxxxxxxxxxxx-yyyyy". The x's typically are the facility name and the y's are typically the system number within the institution. As an example, a typical line will be "HYDRO-FORCE WRS >SAN QUENTIN – EB-01".
2. Connect the PC to the microcomputer using the serial cable and the null modem adapter, **use the upper 9-pin connector on the WRS microcomputer.**
3. Place the PC in the hyperterminal mode. This can normally be found in Windows under "accessories" and "communications".
 - A. Set the communications rate to 9600 baud.
 - B. Set the communications protocol to 8 bits, no parity, and 1 stop bit (8-N-1), with hardware flow control.
 - C. Set the ASCII settings for local emulation so you will see the words you type on the PC screen. On the ASCII setup-ASCII Sending, set line ends with line feeds to blank. Use one of the possible choices for emulation: ANSI, TTY, or VT100.
 - D. Give this setup a name so you can use it again later.
4. Prepare the microcomputer to receive the information as follows:

- A. Enter the system password if necessary to gain access to the computer program (usually not necessary in Hydro-Force equipment case). Refer to the microcomputer programming manual for more information.
 - B. Using the microcomputer keypad, Press B repeatedly (14x's) until you obtain the first computer screen showing "video on".
 - C. Using the microcomputer keypad, Press 8 to set the microcomputer to the "modem on" mode. The screen will change from "video on" and will say "modem on".
5. Enter the wording into the PC on a single line starting with >. The > lets the microcomputer know that the text message is following. A typical message is >SAN QUENTIN-EB-01. Verify that you have the correct wording on WRS control panel.
 6. Using the microcomputer keypad, Press and hold the F to send the information to the microcomputer. The words will appear on the microcomputer screen and the microcomputer screen will revert to the screen saying "video on".
 7. Turn the WRS key switch off and then back on so the microcomputer will reset and therefore display the new wording. Verify that the new wording appears on the monitor screen. If not, you may have to repeat the programming steps.
 8. Disconnect the serial cable and take the PC out of the hyper-terminal mode.
 9. If there are any problems please contact our office.