PC-ControoLAB™ 3
SPECIAL INSTALLATION INSTRUCTIONS
NETWORK KEY PROTECTED VERSION
(Revised Nov. 1, 2002, Sept. 30, 2006)

NOTICE: This program is protected by international copyrights and by the hardware key enclosed. The key must be installed on a parallel printer port of a computer designated as the "host" on a network in order for the program on any computer on that network to run. The hardware key must remain attached to the parallel printer port in order for the program to continue operation.

PC-ControoLAB can be installed on any number of computers, so long as they are on a common network. The Sentinel SuperPro server software and the SuperProNet hardware key must also be installed on a host computer on that network. The hardware key permits up to _____ users on the network to run PC-ControoLAB at any one time. If the maximum number of users are currently running PC-ControoLAB and another user attempt to run the program, that user will receive an error message and will not be able to run the program until another user as signed off. A *Monitoring Tool* is available at the host for monitoring the number of users.

SYSTEM REQUIREMENTS:

> Windows 95 / 98 / ME / NT 4.0 (with Service Pack 4 installed) / 2000 / XP
> Network Protocol: TCP/IP, NetBEIU, IPX/SPX
> All computers when are potential users of PC-ControoLAB 3 must be on a common network.

DESIGNATE ONE COMPUTER ON THE NETWORK TO BE THE "HOST" COMPUTER.

That computer will have the network key installed in a USB port. All other computers on the network are called "client" computers. Any computer on the network can be designated as the "host" computer, provided that it is in operation any time a client computer tries to execute PC-ControoLAB 3. The host computer does not have to be the network server computer. You must know the computer name, or the IP address of that computer, however.

ON THE HOST COMPUTER

1. Install PC-ControoLAB

- Insert the CD into your CD-ROM drive. AutoRun should start and give you the options of installing the program, browsing the CD or exiting.
- If AutoRun does not start, from the Windows START menu, RUN D:\setup.exe. (If your CD-ROM drive is not D, use the appropriate designation.)
- Follow the on-screen instructions:
  - o Enter the serial number from the back of the CD case.
  - o During the installation procedure, you will be asked for a destination folder. By default, the destination folder is

    C:\Program Files\PC-ControoLAB 3.

    You may change the destination folder if you wish.
  - o At one point you will be asked if you want a Complete or a Custom installation. The difference between these two is that the Complete installation loads the Laboratory Exercises onto your hard drive, whereas the Custom installation does not. These will require about 1.6 mB on your hard drive. If you choose not to install them, you can access them directly from the CD.

o   Access to the Laboratory Exercises requires Adobe Acrobat Reader. If the installation program does not detect a copy on your computer, it will install a copy. Alternatively, a free version may be downloaded from www.adobe.com.

2. Install the Sentinel SuperPro Driver

- With the CD still in the CD-ROM drive, from the Windows START menu, RUN

    D:\Sentinel\Driver\Setup.exe.

Use the appropriate drive designation if your CD-ROM is not D.   An easy way to get to this program is by use of the Browse button.

- At the Setup Type window, you will be asked whether you want a Complete or Custom setup. Choose Custom, then click Next.
- At the next window, be sure "Parallel System Driver" is highlighted, then click Next. (This applies regardless of whether you have been furnished a parallel port key or a network key.)
- Click on Install   then   Finish.   The Sentinel SuperPro Drivers will be installed automatically.

3. Install the Sentinel Server and provide for its automatic startup

- **Windows 95 / 98 / ME Users**
    o   In My Computer   or   Windows Explorer, navigate to

        C:\Program Files\PC-ControLAB 3

    (Use the appropriate designation if you did not install the program to the default location.)
    o   Locate and click on *sprnsrv9x.exe.* This will start the server, although you will see no visual confirmation of it. To verify that the server is running, go through:

    START > PROGRAMS > ACCESSORIES > SYSTEM TOOLS > SYSTEM INFORMATION

    In the dialog box that appears, click on **Software Environment**. Then, under **Running Tasks**, look for *sprnsrv9x.exe.*

- **Windows NT /2000 / XP Users**
    o   With the CD still in the drive, navigate to D:\Sentinel\Server
    o   Open the "Server" folder.
    o   Double-click on *loadserve.exe* to run the file.
    o   In the dialog box which appears, confirm that the path in **Executable Path** refers to

        D:\Sentinel\Server\winnt\spnsrvnt.exe.

    o   OPTIONAL: Click **Configure** to set the path for the server log file. (The server checks for the log file location when it starts up. If no path for a log file is set, logging will not occur.)
    o   Click **Install Service** to install the server. (The server is an NT service that will start automatically whenever your system is booted up.)

    To verify that the server is running

        Windows NT Users
            Go through START > SETTINGS > CONTROL PANEL
            Double-click on the **Services** icon.

In the dialog box, the SuperPro Server should be listed with a status of "Started"

> **Windows 2000 Users**
> Go through
> START > SETTINGS > CONTROL PANEL > ADMINISTRATIVE TOOLS
> Double-click on the **Services** icon.
> In the dialog box, the SuperProServer should be listed with a status of "Started"

> **Windows XP Users**
> Go through
> MY COMPUTER > C:\ > DOCUMENTS & SETTINGS > ALL USERS >
>   START MENU > PROGRAMS > ADMINISTRATIVE TOOLS
> Double-click on the **Services** icon.
> In the dialog box, the SuperPro Server should be listed with a status of "Started"

4. Designate the Host Computer

- Run   C:\Program Files\PC-ControLAB 3\Get_Host.exe
- In the dialog box that appears, enter the identification (computer name or IP address) of the host computer. The client computers will access the hardware key on this computer.
  (It may be better to designate the host computer's name, rather than its IP address, since some networks dynamically reassign IP addresses.)
- Click on "Yes" for the host computer, and "No" for all client computers.

5. Install the Sentinel SuperPro Network Key

If you have been furnished a parallel port network key:
- The computer should be off when installing the key.
- The use of grounding wrist straps is recommended.
- Attach the connection labeled COMPUTER to the printer port. A printer cable can be attached to the other end of the key. If hardware keys for other applications are also attached to the printer port, the Sentinel SuperPro key (furnished with this program) should be the farthest from the computer.

If you have been furnished a USB network key.
- Insert the key at any USP port.

6. Elimination of start-up message.

On computer startup, you MAY get a message "Unable to access Sentinel SuperPro Driver. Exiting." You can click OK and ignore this message, since the driver is not actually needed until you start PC-ControLAB. You can, however eliminate this message by the following procedure:

- Go to Device Manager. (In Windows XP, right click on My Computer, then select "Properties". In the "System Properties"dialog box which appears, select the Hardware tab, then click on Device Manager.)
- In Device Manager, pull down the "View" menu and select "Show hidden devices."
- Select "Non-Plug and Play Drivers" the list.
- From the next list, right click on "Sentinel" and access its Properties.
- In the "Sentinel Properties" box, select the "Driver" tab.
- You will see "Startup Type". The default is "automatic". Change that to "boot".
- Close all open dialog boxes.

You can now run **PC-ControLAB 3** on the host computer. If you remove the key while any user program(s) is/are in operation, the program(s) will stop. You will have to reinstall the key and restart the program(s).

ON ALL CLIENT COMPUTERS

See instructions for comparable steps for the Host computer.

1. Install PC-ControLAB 3.

2. Install the Sentinel SuperPro Driver.

3. Install the Sentinel Server.

4. **Designate the Host Computer.**

You can now run **PC-ControLAB 3** on any of the client computer, up to the limit of the number of simultaneous users assigned by the hardware key.. If you remove the key while any user program(s) is/are in operation, the program(s) will stop. You will have to reinstall the key and restart the program(s).

OPERATING SYSTEM UPGRADE

If you upgrade your operating system, say from Windows 9X or Windows ME to Windows XP Pro, your system may not be able to fine the Sentinel SuperPro key, even though it was successful under the old operating system. In this case:

- Navigate to D:\ Sentinel \ OS Upgrade Utility \ cleanregSSP.bat. Highlight this file and click OPEN, then OK to run.
- Ignore messages, but answer YES to the question "Are you sure you want to add the information in winntssd.reg to the registry?"
- Again, navigate to D:\ Sentinel \ OS Upgrade Utility \ setupx86.exe. Highlight this file and click OPEN, then OK to run.
- You will see a mostly blank window with the word "Functions" on the menu bar. Click on "Functions" then "Remove Sentinel Driver". Click OK, OK.
- Reboot your system.
- Now follow Section 2 of this document to INSTALL the Sentinel SuperPro Driver.

Instructions for updating to Windows Vista, when it is released, have not yet been developed. Please contact Wade Associates, Inc. (controlab@wadeco.com) if you upgrade to Windows Vista.

ADDITIONAL RESOURCES

In the C:\Program Files\PC-ControLAB 3 folder, there is the *Sentinel SuperPro System Administrator's Guide.* This document is in PDF format, and may be viewed on-line or printed out. It can provide additional insight into the Sentinel SuperPro protection system. It also discusses the use of the Monitoring Tool, described below.

The monitoring tool is also in the C:\Program Files\PC-ControLAB folder. This, and its accompanying HELP (.chm) file may be copied to the hard drive and used for monitoring SuperPro hardware key usage on the network.

You may also view the SafeNet, Inc. (suppliers for the Sentinel SuperPro system) support website http://www.safenet-inc.com/support/index.asp. (Note that Rainbow Technologies, the original developer of the Sentinel SuperPro system, has recently been acquired by SafeNet, Inc. Some references may still refer to Rainbow Technologies.)