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## INSTALLATION INSTRUCTIONS

# PCI2000/3000 PCI COMPUTER INTERFACE WITH PCD2000 QUICKLOADER™ SOFTWARE

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WI443E 6/94

### GENERAL DESCRIPTION

Programming a Napco Quickloader™ control panel is fast and easy with Napco's PCD2000 and PCD3000 Quickloader software, PCI2000 computer interface and your IBM PC-compatible computer. The PCI2000 provides the means for interconnecting your computer to a Napco Quickloader control panel for local uploading/downloading; or with the addition of a suitable modem, to a telephone line for remote uploading/downloading. The extensive use of on-screen help menus reduces learning time for the novice and provides a convenient ready reference for the advanced user. In addition, an Error-Checking Mode reduces the possibility of missing or incompatible data. The Status Mode displays panel status at any time; the Command Mode permits changing of panel status.

### SPECIFICATIONS, PCI2000 Computer Interface

**Input Power:** 12.5Vac, 10VA supplied by TRF-1 Transformer. (The PCI2000 can power one local panel and keypad with no accessory devices connected.)

**Fuse:** 1A, 3AG; 1 spare supplied.

**Dimensions:** 4.8" x 7" x 1.5" (HxWxD) (12.2cm x 17.8cm x 3.8cm)

### ORDERING INFORMATION

PCI2000/3000, comprising PCI2000 Computer Interface; PCD2003 Software, 3½" floppies; PCD2005 Software, 5¼" floppies; PCL2000 Local Download Cable (for MA1000 series); Custom 10-conductor computer cable with "D" connectors; 6-conductor modular cable (for local MA2600 or MA3000); 4-conductor modular cable (for telephone line); TRF-1 Power Transformer and instructions. **Note:** PCD3000 Software is furnished separately upon completion of MA3000 Training Course.

### SYSTEM REQUIREMENTS

The following system hardware is required.

- IBM PC or compatible computer with at least 640K of RAM.
- MS-DOS 3.0 or PC-DOS 3.0 or later.
- Hard disk with at least 5MB available for PCD2000 and PCD3000 system and data files.
- 1 serial port.

Compatible modem; recommended modems:

- ☒ SupraModem 2400 (external)
- ☒ Cardinal Technologies MB2400EX (external)
- ☒ Zoom VFX V.32bis 14.4kBps FaxModem (external)
- ☒ Practical Peripherals PM1200SA mini (external)

**Modem.** The modems listed above have been tested by Napco and were found to be compatible. Note that most Hayes-compatible modems *will not work*. (Also note that **not all modems are equipped** with a phone jack for connection of a local telephone.) If your modem has a DTR STATUS switch, set it to follow DTR (this may or may not be the default setting). Set all other switches to their default settings.

Although an external modem is shown in the wiring diagram, connection to an internal modem is the same except that there is no RS232C cable needed between the modem and the PCI2000. Connections to <LINE> and (if available) <PHONE> are made to the equivalent jacks on the internal modem at the rear of the computer. When first installing the programs (see software instructions, WI446), the setup procedures will ask you to identify the type of modem (Internal or external) and which serial port it occupies.

**Printer.** A printer is optional. If one will be part of your system, it *must* be connected to a parallel port (e.g., LPT1). When first installing the program, the setup procedure will ask you to identify which parallel port your printer occupies.

### SYSTEM WIRING

Complete connections from the PCI2000 to accessory equipment as follows. Refer to the wiring diagram.

**J1 [TO COMPUTER].** Connect the custom 10-conductor computer cable (supplied) to the serial port (e.g., COM1) of your computer.

**Note:** To connect to a 9-pin "D" connector, install a 25-pin to 9-pin adaptor between the supplied cable and the computer. (The custom cable supplied *must* be installed.)

**J2 [TO EXTERNAL MODEM].** Connect a 25-conductor computer cable (not supplied) to the corresponding "D" connector on an external modem. (This cable is *not* required for internal modems.)

**J3 [LOCAL TO PANEL ONLY].** Connect the 6-conductor modular cable (supplied) to J3 of an MA2600 or MA3000. *Important: Use only the cable supplied, or a standard 6-conductor telephone cable; the use of a non-standard cable may result in damage to the panel!*

**J4 [TELCO LINE IN].** Connect the 4-conductor modular cable (supplied) to the phone line.

**J5 [LINE OUT].** Connect the 4-conductor modem cable (supplied with the modem) to the LINE jack on the internal or external modem. Also connect a local phone to the PHONE jack on the modem (not on all internal modems).

**J6 [12.5V A/C].** Insert the stripped ends of the TRF-1 power

transformer cable at the right side of the terminal strip and tighten the screws at the top to secure.

## OPERATION.

**Preliminary.** Complete connections to all equipment as described in *SYSTEM WIRING*. Plug the TRF-1 Transformer into a 120Vac outlet; the LED on the PCI2000 will light. (Note that the PCI2000 may also be powered from a local MA2600 or MA3000 via the 6-conductor modular cable connected at J3.) Turn on the modem, computer, and auxiliary equipment.

**PCD2000.** Insert the PCD2000 disk (Disk #1) into Drive A (see software instructions, WI446). To print the latest update information, at the DOS prompt, type `copy a:read.me prn`, then press **Enter**

**PCD3000.** Insert the PCD3000 disk into Drive A (see software instructions, WI446). To print the latest update information, at the DOS prompt, type `copy a:release.doc prn`, then press **Enter**.

**Installation.** Install (or update) the software in accordance with the instructions furnished with the diskettes (WI446) onto the hard disk of your computer. The installation program will copy all files onto your hard disk and run a setup utility (for PCD3000, select SETUP from the main menu), which will ask you a few questions about your system. Answer all applicable questions.

**Passcodes.** When the setup procedure is complete, the DOS prompt will appear on the screen. Proceed to the passcode utility PASSUTIL, which establishes passcodes and security levels.

**PCD2000.** Type `passutil`, then press **Enter** to run the passcode utility (required).

**PCD3000.** Select PASSUTIL from the main menu.

The passcode utility will ask you to enter a Master Security Code of up to 8 digits. *It is imperative that this code be committed to memory or filed away in safe place.* You will then be asked to assign at least one User Security Code (as many as 16 may be entered), which may consist of numbers and/or upper- or lower-case letters in any combination, followed by communication and data-edit security levels. Press function key F1 to display a help screen identifying the five levels of security for each.

Any active User Security Code, but not the Master Security Code, will give access to the program at the assigned security levels.

**Mode Selector (OTHER/NAPCO).** Set the Mode Selector to the NAPCO position when using the PCD2000 or PCD3000 software; set the selector to OTHER for all other software applications.

**Running the programs.** To run the Quickloader software, proceed as follows.

**PCD2000.** At the DOS prompt,

1. Type `cd\PCD2000`, then press **Enter**.

2. Type `pcd2000` once again, then press **Enter** again.

3. Enter any User Passcode. After the Napco logo appears, press any key to start at the <FILE OPERATIONS MENU>.

4. Use the on-screen documentation for instructions on how to program each screen. Press function key F1 for program help and F2 for context help. Press the **Esc** key to quit any menu or the **X** key to terminate the program from the <FILE OPERATIONS MENU>.

**PCD2000.** At the DOS prompt,

1. Type `cd\PCD3000`, then press **Enter**.

2. Type `PCD3000` once again, then press **Enter** again.

3. Select "Quickloader" from the menu; enter any User Passcode to continue.

4. Use the on-screen documentation for instructions on how to program each screen. Press function key F1 for program help and F2 for context help. Press the **Esc** key to quit any menu or the **X** key to exit the program from the <File Operations Menu>.

**Local Downloading to an MA2600 or MA3000.** For convenience, a local MA2600 or MA3000 (panel only) may be powered from the PCI2000 via the 6-conductor cable connected at J3. Conversely, the PCI2000 may be powered by the battery inside a local MA2600 or MA3000 via the same cable. Both units may be powered simultaneously without consequence.

**Note:** Before attempting to program a new MA2600 control panel, remove the insulating card from the lithium battery contact.

Using the configuration shown in the wiring diagram, open an account and program as required using function keys F1 and F2 to display programming instructions for each feature. When finished programming, press **Esc** to return to the <ACCOUNT OPERATIONS MENU> and select "(Local) Communication". From the (Local) <COMMUNICATION MENU> select "(Local) Download Program" and proceed as directed on the screen.

**Local Downloading to an MA1000-Series Panel.** Downloading to a local MA1000-Series panel requires the PCL2000 Local Download Cable (supplied) in order to simulate a remote-download scenario. Connect the cable as shown in the wiring diagram (see Note 2), directly from the modem to the panel's tip and ring (red and green) Telco terminals.

Open an account and program as required using function key F1 to display programming help screens for each feature. When finished programming, press **Esc** to return to the <ACCOUNT OPERATIONS MENU> and proceed as follows.

1. Select "Communication".

2. From the <COMMUNICATION MENU> select "A" to establish a connection to the control panel. When requested, enter "1" to select the *Manual Download Method*.

3. After the connection has been established, as will be indicated on-screen, enter "B" (*Remote-Download Program*) and continue as instructed. (See *Manual Download*.)

**Remote Downloading.** A program may be downloaded over phone lines by either of two methods: (a) *Callback Method* or (b) *Manual Download Method*, each of which is described in the following paragraphs. Remote downloading to an MA2600 requires that the DL (download) module be installed in the control panel. Note that if the panel is armed, the Command Mode must be utilized to disarm it (if security allows) before a program can be downloaded.

**Callback Method.** This method is used to download to an unattended panel.

1. **PCD2000:** At the <COMMUNICATION MENU>, enter "A" to establish a connection to the panel. Then, when requested, press "2" to select the *Callback Method*.  
**PCD3000:** At the <Remote Communications> menu, select "Establish Connection (Callback)".

2. On the 15th ring (unless programmed otherwise) the panel will answer and return a confirmation call to the Callback Telephone Number. **Note:** If no Callback Telephone Number is programmed into the panel, the

panel will not return the call, but the connection will still be established. Each process will be indicated on-screen.

3. After the connection is established, the panel will accept further instructions from the computer. Select any mode and proceed accordingly.

Upon completion, terminate the connection.

MA1000-Series, MA2600DL (Ver. 21 and later) and MA3000 control panels will accommodate an answering machine at the site if line seizure is used on the house phones. The following programming is required (also see note below):

MA1008, MA1010-Series: Program a "1" in Location 082.

MA1016-Series: Do not program a "4" in Location 819.

MA2600DL: Do not program a "4" in Location 969.

MA3000: Do not program a "4" in Location 2371.

The answering machine will pick up on its programmed number of rings, as usual. The control panel will then listen for the signal from the PCD and seize the line from the house phones, and the connection will subsequently be established.

**Note:** The number of rings programmed into the panel must exceed that of the answering machine.

**Manual Download.** An installer at the site can call the central station to initiate a *Manual Download*. During the procedure, voice contact will be lost. The installer must be prepared to arm the panel, disarm, then access the download function at the keypad. Therefore, both the installer and the computer operator should be familiar with the following sequence of events.

1. **PCD2000.** While in direct phone contact with the in-

staller at the site, enter "A" at the <COMMUNICATION MENU> to establish a connection to the panel. Then, when requested, press "1" to select the Manual-Download Method. After a few seconds, the phone at the computer will go dead.

**PCD3000.** While in direct phone contact with the installer at the site, select "Connection: Establish Keypad Function Mode" at the <Remote Communication> menu to establish a connection to the panel. After a few seconds, the phone at the computer will go dead.

2. At the site, the installer will hear a series of tones, after which he must arm the panel, disarm, then invoke **DOWNLOAD** (MA3000); **Function 8** (MA2600DL); or **Function 6** (MA1000 Series) within 2 minutes. At this point, the site phone will go dead.

3. At the computer, select "Download Program", or another function and proceed accordingly.

4. Upon completion, terminate the connection.

**Verification.** The <COMMUNICATION MENU> includes **Verification Modes** for local and remote data transfers. Use these to compare the program in the computer to that in the control panel. A mismatch in a control-panel program will be indicated by a screen message and will flash the mismatched data on the <ADDRESS PROGRAMMING> screens. Use function key **F4** to toggle between panel data and PCD data; **F5** to advance to the next *different* location; **F7** to print the differences.

A mismatch in zone-description programming will be indicated by a screen message only.

