



**NAPCO**®

NAPCO SECURITY SYSTEMS, INC.  
333 BAYVIEW AVENUE  
AMITYVILLE, NEW YORK 11701

SALES, REPAIRS & TECHNICAL SERVICE  
TOLL FREE: (800) 645-9445  
TECHNICAL SERVICE DIRECT LINE  
TOLL FREE: (800) 645-9440

## INSTALLATION INSTRUCTIONS

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

© Napco 1993

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.

4. 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.

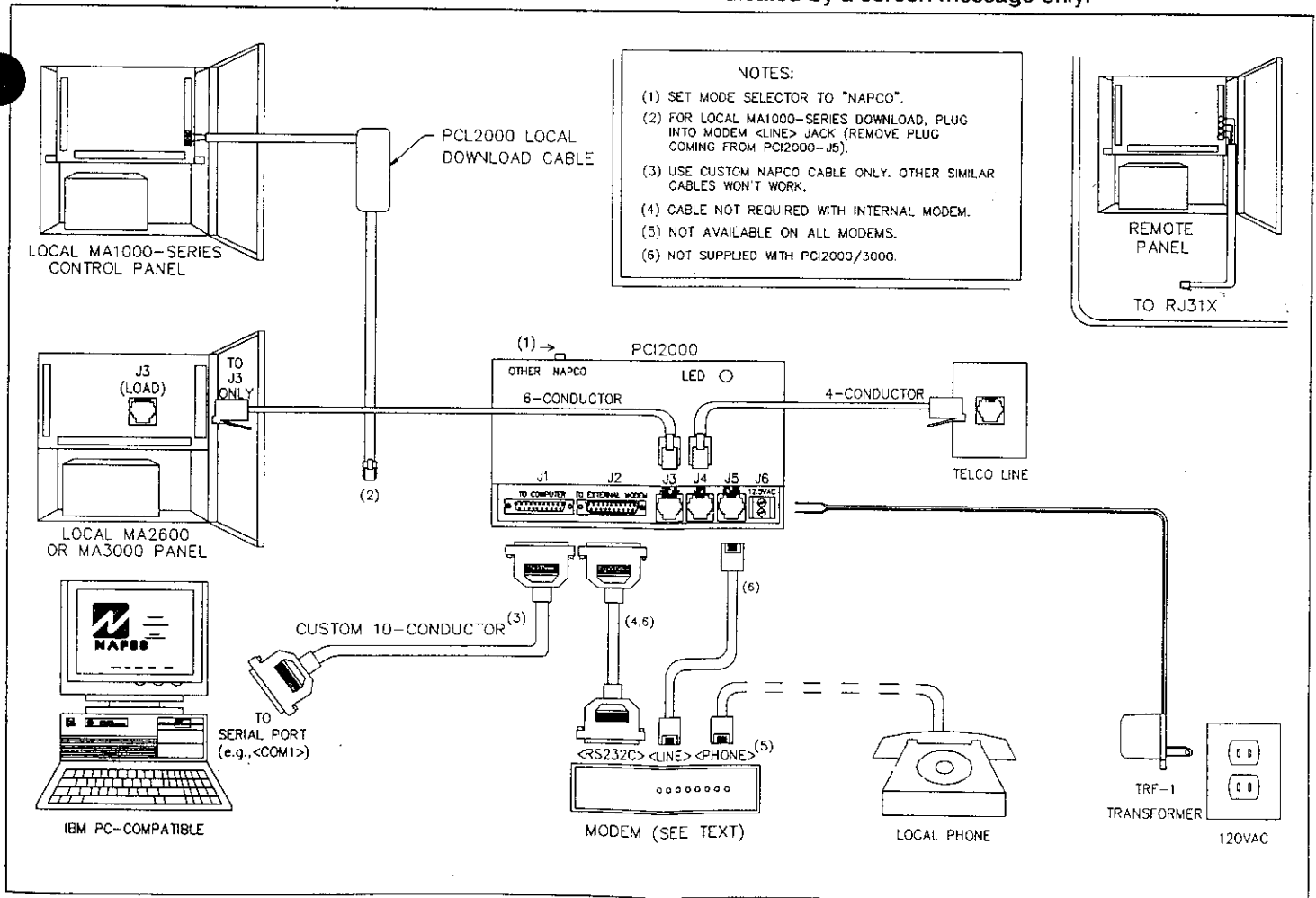
2. At the site, the installer will hear a series of tones, after which he must arm the panel, disarm, then invoke *DOWNLOAD (MA3000); Function 8 (MA2600DL); or Function 6 (MA1000 Series)* within 2 minutes. At this point, the site phone will go dead.

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.



## NAPCO LIMITED WARRANTY

**N**APCO SECURITY SYSTEMS, INC. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for fifteen months following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges.

In case of defect, contact the security professional who installed and maintains your security system. NAPCO shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to accident, nuisance, flood, fire or acts of God, or on which any serial numbers have been altered, defaced or removed. NAPCO will not be responsible for any dismantling, reassembly or reinstallation charges.

In order to exercise the warranty, the product must be returned by the security professional, shipping costs prepaid and insured to NAPCO. After repair or replacement, NAPCO assumes the cost of returning products under warranty.

*There are no warranties, express or implied, which extend beyond the description on the face hereof. There is no express or implied warranty of merchantability or a warranty of fitness for a particular purpose. Additionally, this warranty is in lieu of all other obligations or liabilities on the part of NAPCO.*

Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period. In no case shall NAPCO be liable to anyone for any consequential or incidental damages for breach of this or any other warranty, express or implied, even if the loss or damage is caused by the seller's own negligence or fault.

*This warranty contains the entire warranty. It is the sole warranty and any prior agreements or representations, whether oral or written, are either merged herein or are expressly cancelled. NAPCO neither assumes, nor authorizes any other person purporting to act on its behalf to modify, to change, or to assume for it, any other warranty or liability concerning its products.*

In no event shall NAPCO be liable for an amount in

excess of NAPCO's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyer's order of the goods furnished hereunder.

**NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.**

**Warning:** Despite frequent testing, and due to, but not limited to, any or all of the following; criminal tampering, electrical or communications disruption, it is possible for the system to fail to perform as expected. NAPCO does not represent that the product/system may not be compromised or circumvented; or that the product or system will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; nor that the product or system will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce risk of burglary, robbery, fire or otherwise but it is not insurance or a guarantee that these events will not occur. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR OTHER LOSS BASED ON A CLAIM THE PRODUCT FAILED TO GIVE WARNING. Therefore, the installer should in turn advise the consumer to take any and all precautions for his or her safety including, but not limited to, fleeing the premises and calling police or fire department, in order to mitigate the possibilities of harm and/or damage.

NAPCO is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to NAPCO's original selling price of the product regardless of the cause of such loss or damage. If the user wishes to protect itself to a greater extent, NAPCO will, at user's sole cost and expense, obtain an insurance policy to protect the user, supplemental to user's own policy, at a premium to be determined by NAPCO's insurer upon written notice from user by Certified Mail, Return Receipt Requested, to NAPCO's home office address, and upon payment of the annual premium cost by user.

Some states do not allow limitations on how long an implied Warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, or differentiate in their treatment of limitations of liability for ordinary or gross negligence, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.