

PC Tab

INSTALLATION MANUAL

SECURE-IT, INC.

EAST LONGMEADOW, MA 01028

800-451-7592 / 413-525-7039
(fax) 413-525-8807
<http://www.Secure-It.com>

IMPORTANT

READ ENTIRE MANUAL BEFORE STARTING !!!

System Overview

The heart of the PC Tab System is the unique security sensor equipped with a security sticker that you just peel and stick to the equipment you are securing. The PC Tab system is connected to a Central Alarm Panel via existing spare network jacks or, directly hardwired.

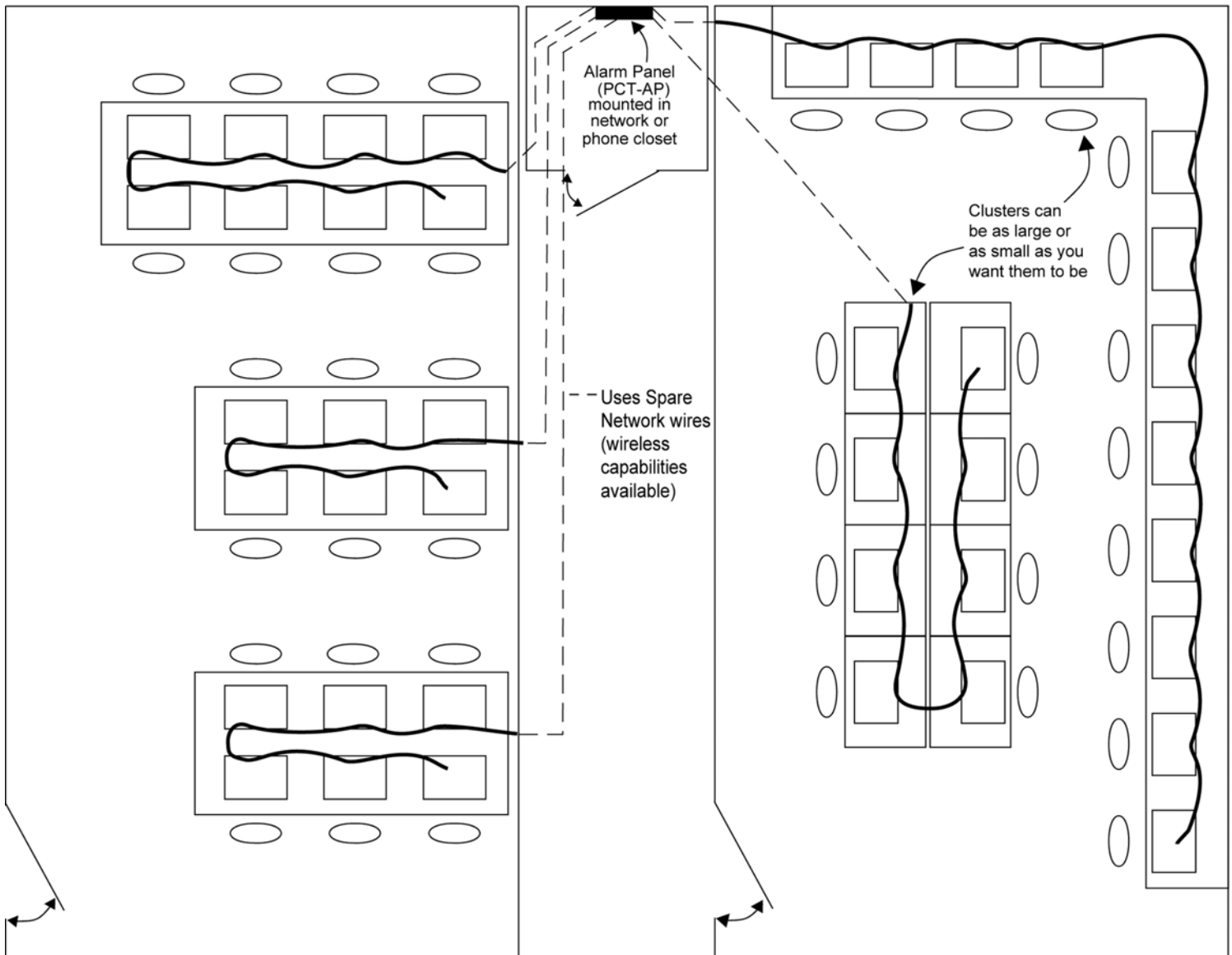
There are 3 elements to the security system, each of which is discussed within this manual.

They are:

1. Central Alarm Panel (PCT-AP)
2. The wiring to EACH protected area. (cluster)
3. The final connections to your equipment

The diagram below shows these elements all put together. With this in mind, you should sketch out your situation to get a good idea of the system layout. This will ensure a smooth installation.

TYPICAL COMPUTER LAB CONFIGURATIONS



Installing the Alarm Panel

The alarm panel comes ready to mount with brackets. Simply screw the panel onto the wall in an appropriate location, preferable near an un-switched AC power source, incoming zones wires and telephone line (if communications are to be used). It is normally mounted in the network closet allowing for the use of spare network wires running to the computer rooms and to prevent tampering with the alarm panel or power source. The panel's battery back up will last a week or more, but it is prudent for the security of the system to keep the power plug for the alarm panel in a secure location.

After mounting the alarm panel, put the backup battery in the alarm panel and plug the red lead into the positive terminal (red) and the black lead into the negative terminal (black). Close and lock the alarm panel, (a tamper switch inside the box that will prevent arming of the system while open) there should be no reason to open the panel again. With the battery installed, it is now safe to plug the power transformer into a power outlet.

(NOTE: When the transformer is plugged in the system may “chirp” indicating power has been applied. This “chirp” can be startling if you are not prepared.)

Once the system is plugged in, it performs a system check (this is normal system initialization). The keypad will emit a series of beeps and the lights will flash indicating the sequence has started. This takes approximately 15 seconds, once the test is completed; the keypad will beep again to indicate the test is finished. Approximately 10 seconds later it will start to beep again and the trouble light will be lit because the panel was un-powered and lost its system clock. This is normal. Clear this trouble by enter the following:

[*] [6] [master code] [1]

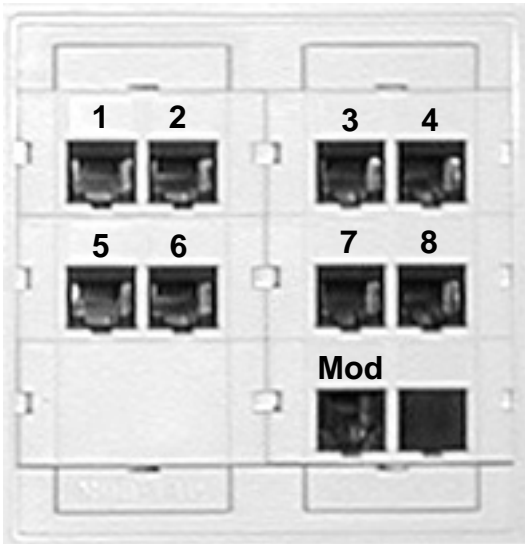
Connecting Alarm Panel to Equipment to be Secured

Zone wires are the physical connections between the central alarm panel and the areas to be protected. There are a number of ways to accomplish this. Equipment that is “clustered” together can be connected together to form one zone. Clustering enables you to have close equipment secured without the need for more zone wires. Below are the primary methods of connecting each area back to the alarm panel:

Existing Network wires: This method does NOT put the alarm system on your network; it is simply converting an unused network wire into a zone wire. With spare network jacks simply unplug the appropriate network wires from your hub in the network closet and plug them into the front of the alarm panel using patch cords. The jack in the room is then used to connect to the protected equipment. NOTE: Only one jack is needed per cluster, NOT per computer.

Run Zone Wire: If no network wires are available, you can run additional network wires. (Only one per cluster is needed, not per computer). These network wires **cannot be longer than 600 feet**. If you use 22 AWG wire it can be as long as 1000 feet. This option is desirable so that you get the zone wire where you want it. If you do not want to use standard CAT5 wiring techniques and pin-outs, please call technical support for the correct wiring diagrams.

ZONE JACKS ON ALARM PANEL



The zone plugs run left to right, up to 8 zones. The “Mod” plug is used to plug in up to 3 Expander Modules (8 zones each, part # PCT-APE) for a total of 32 zones.

Connecting the Zone wire to Equipment

Connecting PC Tab Wires and Tabs to your Equipment

With the alarm panel and zone wires in place, securing your equipment comes next. Each piece of equipment to be secured will have at least one connection wire and sensor. The PCTab connection wires (CW) come in standard lengths of 6 – 12 – 25 and 50 feet. Each of these can be interchanged without any operating problems. For desktop units where the cpu and the monitor are on the top of the work area, the PCT-CW06 (6 foot connection wire) is recommended for both the cpu and monitor. In cases where the cpu is placed under the work area measurements may be required to insure the right CW is selected. In some situations the CW12 provides the additional length to prevent any unnecessary tension on the sensor unit.

Set-up Room

It is recommended that all equipment for the room be laid out prior to the start of installation. This will allow you to both ensure that you have all the equipment needed but also allow you to visualize the placement of the wires and sensors.

A workstation layout of 1 cpu and 1 monitor needs 2 sensors and 2 CW's. Single piece equipment – printers, plotters, scanners and projectors typically only need 1 sensor and 1 wire. The end of each cluster (zone) needs to have the terminator (PCT-T56).

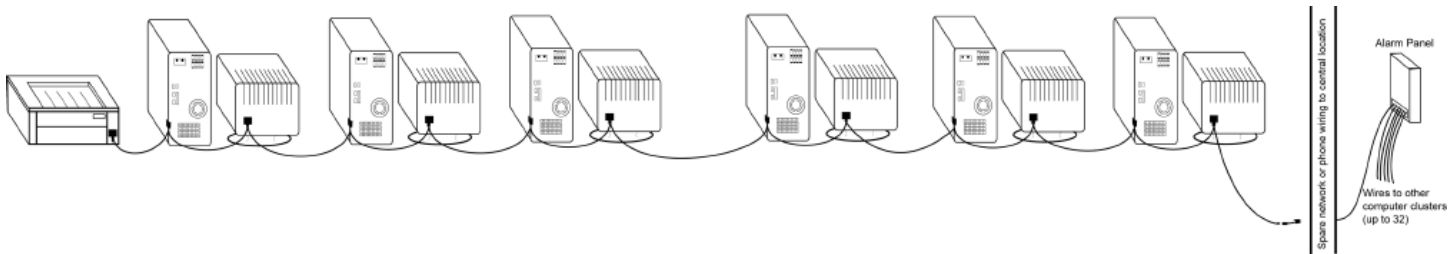
The key issues when placing the CW's are:

1. Ease of movement for equipment
2. Stringing

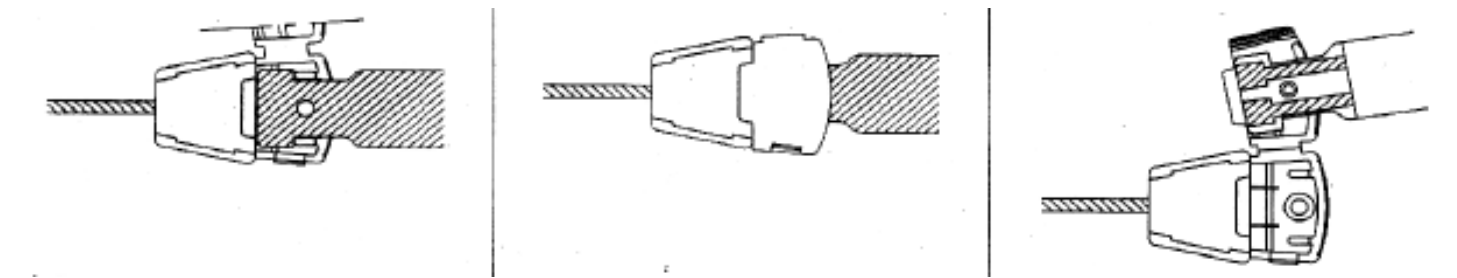
In most cases following network and monitor cables is the safest placing of the CW's. Simply twist tie or place the CW's with these to prevent any unnecessary damage or snags. For units that are under work spaces be sure to leave sufficient slack in the wire so that the units can be pulled out for maintenance without undue stress.

It is a good idea to provide strain relief to the wires. Monitor cw's should be fastened to the monitor cable. These units will take the most stress from movement. It is important that they be securely fastened to prevent unintentional alarms.

Begin by determining the wire that will be used to connect the "cluster" back to the alarm panel. If you will be using a spare network wire as a dedicated alarm wire, you simply need to plug our RJ-45 Adapter into the jack. Then snap your first PCT-CW connecting wire into this adapter. Make sure to determine the appropriate length of connecting wire to ensure there is adequate slack to prevent undue tension on the PC Tab. At the very last "Security Sensor" make sure to plug in a "Terminator" to provide supervision of the system's alarm wiring.



If it becomes necessary to replace a PC Tab (i.e. the red LED light indicates a ripped tab), replace the tab according to the following diagram. Open the connector and remove the old tab. Using a new tab, place the tab tail over the wire in the space provided with the graphic side up (shown in Fig. 1) NOTE: The pads on the bottom of the tab MUST touch the wires inside the connector. Close the lid and fasten the clip. Squeeze the lid and base together (shown in Fig 2.)



Sensor

Placement of the sensors depends on the type of equipment being secured. The primary considerations are.

1. Protection: This takes precedence over all other considerations. Ensure that the units can not be opened (cpu, ram or other internal components) or cover removed and chassis of unit taken. .
2. Strain Relief: Placement of sensors and wires where they will not be excessively tugged or pulled. By nature of this system, this may cause inadvertent triggering of the alarm.
3. Line of Sight: The ability to see the LED (light on indicates broken tab) should there be a problem.

IMPORTANT: The PCTab sticker is a one time use "membrane" contact. Be sure that the surface you are placing the sticker does not have sharp or pointed areas. Sharp or edged implements may cause hairline fractures in the membrane. When placing the sticker apply with the same pressure as a postage stamp using the "pad" of you fingertip. Excessive pressure along seams may cause fractures in the membrane.

To secure a CPU simply find a location at the back or top of the machine where the cover and chassis meet.

Alcohol the surface to ensure that all dust, oils or other contaminants are removed. Place Tab across chassis and cover.

To secure a Monitor: Place tab in general area of the monitor data cord that is connected to the cpu. This placement allows for strain relief, tie wrap or otherwise fasten connection wire (CW) to monitor cable. Since the monitor can not move any further than the data cable this will ensure undue strain on the sensor and tab.

To secure single piece equipment: (i.e. Projectors, some computers, scanners or other single unit pieces). Find location, (typically on at the back) that not interfere with the operation of the equipment and that allows strain relief. Some equipment must protect internal components, in this case place tab across cover and chassis.

Use the following instructions to attach the PC Tab Sensors to your equipment. Then follow the instructions to connect them together and hook them into the alarm system.

Clean the surface you wish to stick the tab to with the alcohol pad provided. One alcohol pad will clean 5-8 surfaces on your equipment. Let this dry about 1 minute. Peel off the protective cover from the back of the tab, and stick the tab across the joint between the computer's cover and its chassis. This will prevent unauthorized opening of the CPU. Place a second sensor on the back of the monitor.



Protect the Internal Components by placing the tab over the joint between the CPU cover and the chassis.

Extremely Important:

There are no "false" alarms as other systems might have. If there is ANY alarm triggered, you MUST find and fix the break, even if it seems to restore itself. If you DO NOT, the system will continue causing alarms until you repair the break!

System Basic Operations:

If you have already installed the PC Tab wires and tabs according to the enclosed directions, the green "ready" light on the keypad should now be on. Open up the keypad flap and enter 1,2,3,4 (the default code) to arm the system.

The system is now armed.

To disarm (AND TO SILENCE THE ALARM SIREN), simply press 1,2,3,4 again.

When the system is armed (red "armed" light on the keypad) any attempt to disconnect any point in the wiring, open up the alarm panel, or unplug the communication phone cord - will set off the siren. The panel also has the capability of dialing out over phone lines to send the alarm signal to a digital receiver (normally at campus police or a monitoring station).

After an alarm has been set off and the siren has been silenced, the keypad will show a memory of which zone was set off. Up to eight zones (computer clusters) can be plugged into this particular panel. Up to 3 expansion modules can be added for a total of 32 zones. We have other panels that will monitor up to 122 zones.

When the memory light is flashing to indicate which zone was in alarm, it must be cleared by hitting the # key before the system can be rearmed. All zones must also be ready to arm (all wires plugged in and tabs intact) before the green "ready" light will come on.

The master code and 32 other PIN codes can be programmed into the panel. To change the default master code, enter [*] [5], [1][2][3][4], [41], [New Master Code], [#], [#]. (Please see the Instruction Manual for further information.)

ENABLING DIAL-OUT MONITORING SIGNAL

The Alarm Panel is shipped as a stand alone system. In order to utilize the dial out capability of the alarm panel, you must complete the following three steps:

1. Hook up the hardware. Included in your package is a telephone RJ31X Block and Cord Set. You must have your telephone technician install the RJ31X Block next to the alarm panel, wired in to any existing live phone wire, and plug the RJ31X Cord (extending from the bottom of the alarm panel) into that block.
2. Enable the programming to dial out. With the alarm panel disarmed, use the following programming sequence:

*8 1701 [this enters the programming mode]
380 [this enters programming section 380]
1 [this turns zone light '1' ON, **if it is already ON, do not enter this section**]
[this exits section 380, press only once]
015 [this enters programming section 15]
7 [this turns light #7 on, enabling the telephone line monitor alarm (TLM), if light # 7 is already ON, do not enter this section]
8 [this allows the TLM to set off the siren if the phone line is tampered with]
[this exits the section, and the programming mode]

3. Program the alarm codes to be sent to the security department. Ask your security department to assign you an account code and alarm codes that they will recognize. Program as many of the sections 301-352 as you choose, corresponding to the sections shown in your PC5010 PROGRAMMING WORKSHEETS on pages 11-16. At a minimum, the following sections **MUST BE** programmed. To program these sections, you must enter the programming mode [*8 1701] and then the section you wish to program [enter THREE digits] and then the information for that section.

Section 301 – Telephone number or extension (press # when finished)

Section 310 – The 4 digit Account Code to identify the alarm panel to your security department
[NOTE: press [*] [1] [*] for the digit “0” as pressing [0] is interpreted as a blank.

Section 320 – The 2 digit Alarm Codes that will be sent to security for each zone. These codes can be unique or all the same, as you choose. Enter all eight 2-digit codes in sequence. Enter [0] [0] to leave one blank.

Recommended: Enter codes for section 349 to alert security of any trouble with the back-up battery, the A/C power, or the bell circuit.

For section [360] on page 15, check with your security department which of these formats is compatible with the digital receiver that they use. The default is format [02] and should work with most receivers.

When you are done with all the sections that you intend to program, press [#] to exit the programming mode.

If you have any questions with any of the programming or installation, please call Technical Support at (800) 451-7592 / 413-525-7039.