HARDWIRE TOUCHPAD AND DISPLAY
ITI Part #60-193

The Hardwire Touchpad and Display is a supervised component operating on the Hardwire Buss that offers you four products in one unit. The **Display** duplicates the visual indications on the CPU. It also contains an **Annunciator** capable of making both low volume status sounds and full volume alarm sounds. Two terminals allow for a N/O or N/C hardwired **Burglary Loop.** Finally, it allows you to arm, disarm and also program the system with its built-in Touchpad.

NOTE: The Hardwire Touchpad described is compatible ONLY with SX-V CPU's with "board revisions" of 'H' or later and software dated 11-30-87 or later.

PRELIMINARY CONSIDERATIONS
DO
locate the Hardwire Touchpad and Display in a convenient location offering easy access for exit and entry control. A good height for the Hardwire Touchpad is about 5 feet from the floor.

consider the total current draw of all hardwired devices on the buss.

DON'T
locate Hardwire Touchpad where it is likely to be exposed to moisture.

install the Hardwire Touchpad in a location where the room temperature will exceed the Hardwire Touchpad's operating limits 10° to 120° F.

NOTE: It is recommended that the touchpad is mounted so that the display not be visible from outside of the protected area.
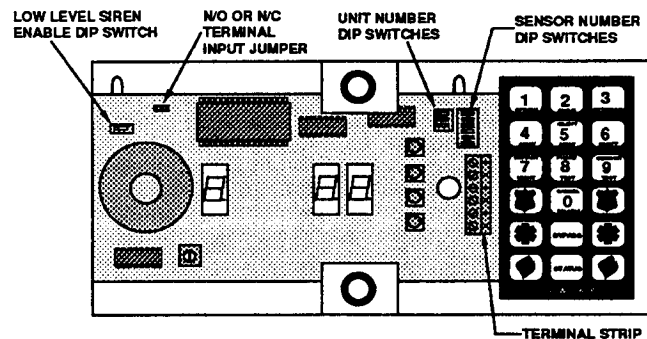
## ANNUNCIATOR SOUNDS OPTIONS
The hardwire Touchpad has DIP switch that allows the choice of either High Level Alarm sounds only or all Alarm and Status sounds.
High Level Alarms Only - With the DIP switch "OFF", High Level Alarm sounds only (such as Police and Fire) no low level alarms or status beeps. Used in areas where Status sound could be disruptive such as near children's bedrooms.
NOTE: If a hardwire interior siren is not used or a hardwire interior siren is used but location F11 is "set", then the siren sound option switch shall be "on".

UNIT NUMBER DESIGNATION

Each device on the hardwire buss must be assigned a unit number from 0 to 7. The unit number uniquely identifies each device on the buss. If one of the devices fails, the CPU reports a "77 Supervisory" signal. The Hardwire Touchpad and Display includes a set of three DIP switches which set the unit number. Set these DIP switches prior to applying power to the Hardwire Touchpad. Use the table below to set the unit number DIP switches.
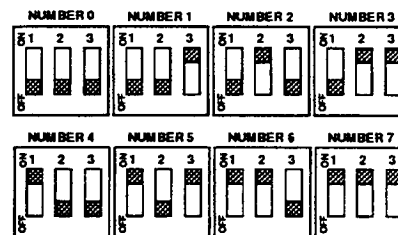
INSTALLATION INSTRUCTIONS

1 Set unit number DIP switches.

2 Make all connections with the power off. Each unit requires a 4 conductor wire connection (shielded wire is preferred). For lengths from 1 foot to 50 feet, use 22 gauge; for lengths over 50 feet, use 18 gauge or greater stranded, twisted cable. The maximum wire run resistance should be no more than 200 ohms. The maximum current draw is 100 MA per Hardwire Touchpad. When determining how many Hardwire Touchpad's can be powered directly by the CPU, keep in mind that the total current available to power all devices hardwired to the CPU is 200 mA (normal supervisory condition).

3 Mount securely, use molly bolts or plastic anchors if mounting on plaster.

4 Power up the CPU and place the programming switch in the program position, then press the STATUS button on the Hardwire Touchpad.
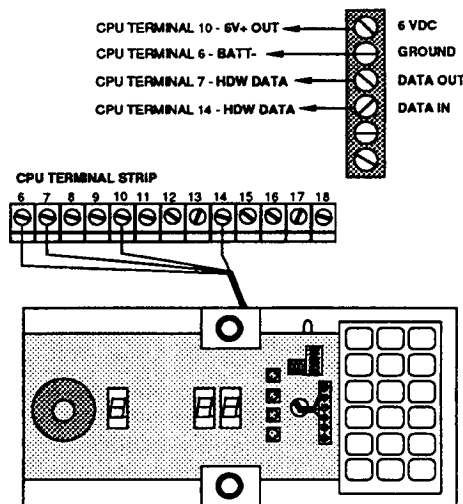
NOTE: Sensor number 77 must be programmed into the CPU in order for the hardwire buss to be supervised. The CPU will "learn" the unit numbers of each device on the hardwire buss. If you wish to change a unit number, you must remove 77, make the change, then reinitialize 77.

5 Return the program switch to the operate mode.

Programming the C.P.U. House Code

1 Turn the C.P.U. Program Switch to "ON".

2 Press the "BYPASS" key on the touchpad.

3 Press and hold both "FIRE" keys until you hear 6 beeps from the touchpad.

4 Enter the desired 3 digit House Code.

5 Press and hold the "Fast Forward" button on the SX-V C.P.U.

6 Release the Fast Forward button when the sensor number display begins to scroll.

7 Verify House Code programming by watching the C.P.U. or touchpad display. The letter "H" will appear in the protection level window, indicating that the next 3 digits shown in the display windows will be the house code of the C.P.U.

HARDWIRE TOUCHPAD AND DISPLAY WIRING DIAGRAM

CAUTION: Be careful not to bend the LED leads when making wiring connections to the terminals.

CPU TERMINAL 10 - 6V+ OUT   6 VDC
CPU TERMINAL 6 - BATT-   GROUND
CPU TERMINAL 7 - HDW DATA   DATA OUT
CPU TERMINAL 14 - HDW DATA   DATA IN

CPU TERMINAL STRIP
6 7 8 9 10 11 12 13 14 15 16 17 18

SETTING THE SENSOR NUMBER AND HARDWIRED SWITCH

The Hardwire Touchpad and Display includes two additional terminals (the bottom two) to attach a hardwire burglary loop. The device connected to the loop requires a minimum 3 second lockout and a 1 second open and close time. Use 20 gauge stranded twisted pair wires and do not exceed 50 feet in length.

LOOP INPUT
LOOP COMMON
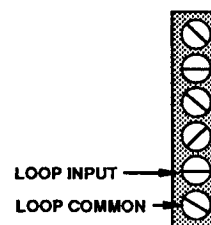
A group of six DIP switches set the sensor number. The first three DIP switches (1, 2 and 3) are used to set the first or most significant digit of the sensor number and the last three (4, 5 and 6) are used to set the second or least significant digit. For example, if a switch were hardwired to an exterior door and is to be sensor 37, the first three DIP switches will be set to the 3 and the last three DIP switches set to 7. The table of switch settings given for the unit number can be used to set each group of three DIP switches.

MOST SIGNIFICANT DIGIT

LEAST SIGNIFICANT DIGIT

Switch Values

4
2
1

4
2
1
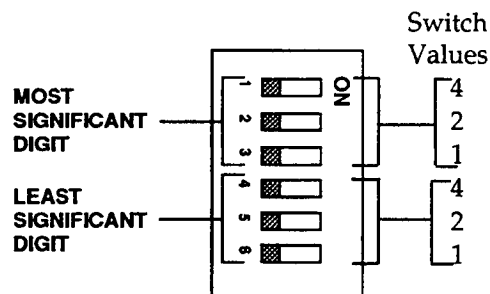
The sensor number chosen will operate with the same standard default sensor and group characteristics as a wireless sensor. See the sensors chart. These characteristics can only be changed through programming from a central station.

IMPORTANT: If the terminals are not being used, all DIP switches must be set to the OFF position.

The configuration of the hardwire switch, whether normally open (close initiates alarm) or normally closed (open initiates alarm), is set by the jumper in the upper left hand corner of the Hardwire Touchpad and Display. If the loop is to be normally closed, keep the jumper in place. If the loop is normally open, remove the jumper.

Normally Closed   Normally Open
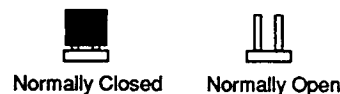
NOTE: The normally closed configuration shall only be used in U.L. listed applications.