



Product Summary



Model No. 60-985 (ATP2100)



Model No. 60-984 (ATP2600)

These touchpads let you control all programming and operation of compatible security systems (see the “Specifications” section).

The large 2-line, 16-character displays provide easy to read messages to indicate the current status of the system. Both touchpads include police, fire, and auxiliary panic buttons that can be activated anytime. A built-in sounder provides alarm, status, and button-press sounds. The ATP 2100 includes a swing-down door that reveals the buttons and a label with basic system operating commands. The ATP2600 has a flip-top that hides the display and covers the buttons when down. Both touchpads also include menu scroll buttons to the right of the display and a hardwire contact input.

Tools and Equipment Needed

- 4-conductor, 22- or 18-gauge wire
- Screwdriver
- #6 screws and anchors (included)
- Panhead screws for gang box installation
- Saw or utility knife for cutting wallboard

Installation

Guidelines

- Mount the touchpads in an environmentally controlled area (32°F to 120°F/0°C to 49°C).
- When mounting the ATP2100, allow at least 3 inches below it for the swing-down door.
- When mounting the ATP2600, allow at least 2 inches above it for the flip-top display.
- Do not exceed the maximum available power (see panel *Installation Instructions*).
- Table 1 describes the power used by the touchpads.
- Table 2 describes the maximum wire lengths allowed between the touchpad and the panel.

Table 1: Touchpad Power Usage

Current (mA)	Conditions
165	Maximum alarm current with the buzzer sounding and the touchpad illuminated from a button press
110	Typical operation
30	Power saving mode (no panel AC power)

Table 2: Maximum Touchpad Wire Lengths

Wire Gauge (Unshielded or Shielded)	Max. Power & Bus Wire Length to Panel	Wire Gauge (Shielded)	Max. Hardwire Input Wire Length
18	750 feet	18	1000 feet
22	300 feet	22	350 feet

Mounting the Touchpad

1. Remove the mounting template from the bottom of the touchpad (Figure 1).



Figure 1. Removing Mounting Template

2. Position the mounting template at the desired location and mark the mounting hole locations (Figure 2). You must allow at least 2-1/2 inches above it for the display.

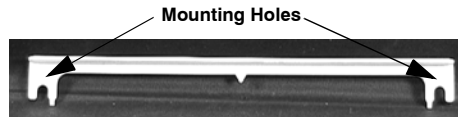


Figure 2. Mounting Hole Locations

3. Loosen the lower side screws slightly to remove the lower cover, then mark the lower mounting hole (Figure 3).

Note

On the model ATP2100, you must remove the door to access the lower side screws.



Figure 3. Removing Lower Cover to Access Lower Mounting Hole

4. Insert anchors into the wall at the marked locations where studs are not present.
5. Secure the mounting template using the screws provided, just so the template can be removed with slight resistance.
6. With the template removed, align the mounting holes on the back of the touchpad with the screws in the wall and slide the touchpad down.
7. Mark the area just left of the screw terminals (white outlined square in Figure 4). This is where you need to route wiring to the touchpad.

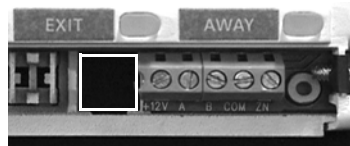


Figure 4. Wire Access Area

8. Remove the touchpad from the wall and make a hole at the marked area.
9. Run a 4-conductor, 18- to 22-gauge wire from the panel to the touchpad (Table 2).
10. If using the hardwire contact input, run an additional 2-conductor, 22-gauge wire from the contact location to the touchpad.
11. At the touchpad location, feed the wires through the wall and touchpad, then mount the touchpad on the wall securing it with a screw at the lower mounting hole location.

Note

Before mounting the ATP2600, you may need to adjust the flip top movement to make sure it is not too stiff or loose. Use the adjustment screws on the back of the touchpad (Figure 5), turning them clockwise to stiffen movement or counterclockwise to ease movement.



Figure 5. Flip Top Adjustment Screws

Wiring the Touchpad to the Panel

1. Remove panel AC and backup battery power.
2. Connect the touchpad +12V, A, B, and COM terminals to the matching panel terminals (Figure 6 for touchpad terminal identification).

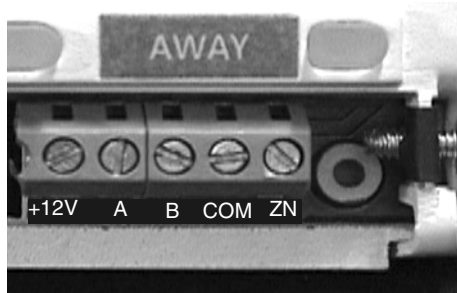


Figure 6. Touchpad Wiring Connections

3. Connect the hardwire contact wires to the touchpad COM and ZN terminals.

Power Up and Bus Communication

After making all wiring connections from the touchpad to the panel, you are ready to power up the panel and verify correct communication between the touchpad and the panel. Upon power up, the panel scans the bus for connected devices, assigns a unit number to each bus device, and automatically learns the device ID number of each bus device.

1. Verify that all wiring between the panel and touchpad is correct.
2. Connect the panel battery and restore AC power. Alphanumeric touchpads briefly show *SCANNING BUS DEVICES*, then display date and time.
3. Press STATUS. The touchpad should respond by beeping and displaying a status message.

If the system does not respond as described above, see the “Troubleshooting” section.

Programming

To program options for the newly installed touchpad (such as key beeps, learning the hardwire contact input, or touchpad partition assignments) see the specific panel *installation instructions*.

Connecting the Touchpad for System Programming Only

For installations that don't include an alphanumeric touchpad as a permanent part of the system, you can connect one for system programming to the Programming Touchpad Header on the panel.

To do this you must first connect a Programming Touchpad Cable (60-791) to the touchpad wires (see *Programming Touchpad Cable Installation Instructions—466-1604*, included with the cable). Then, use the appropriate procedure for connecting the touchpad.

To connect a programming touchpad to a Concord™ Express, Concord, or Concord Ultra panel with software version 2.0 or later:

1. With the panel powered up, connect the cable to the Programming Touchpad Header (Figure 7).

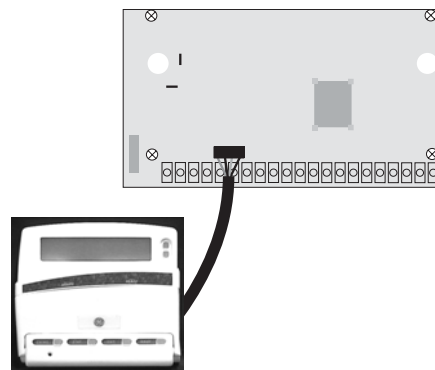


Figure 7. Connecting a Programming Touchpad—Concord Express Shown, Concord Similar

2. Activate the touchpad by pressing **[F8] + [C][O][D][E] + [0] + [2]**. All connected alphanumeric touchpads show a flashing * and all connected fixed display touchpads show *PRESS STATUS*.
3. Enter program mode by pressing **[F8] + installer/dealer [C][O][D][E] + [0] + [0]** and program the panel using the panel *Installation Instructions*.
4. When programming is completed, exit programming mode and disconnect the programming touchpad.

To connect a programming touchpad to a Concord panel with software versions 1.0–1.6:

1. Disconnect AC and backup battery power.
2. Connect the cable plug onto the panel Programming Touchpad Header pins (Figure 6).
3. Reconnect the AC and backup battery power. The touchpad briefly displays *******, *SCANNING BUS DEVICES*, then shows a time and date display.

Note

If the touchpad does not respond as described in step 3, there may be a bus conflict. To correct this, change the touchpad unit number as described in the section “Changing the Touchpad Unit Number.”

Removing the programming touchpad from Concord panels with software versions 1.0–1.6:

To prevent a trouble condition, you must delete the programming touchpad unit number from Concord panel memory *before* disconnecting it.

1. After programming is completed, return to the *ACCESSORY MODULES* menu, then press **[F7]**. The display should read *BUS DEVICES*.
2. Press and hold the **[0]** and **[6]** buttons together for at least 2 seconds. The display shows *DA n*, where *n* is the touchpad unit number (0 - 3 for Concord Express, 000 - 015 for all others).
3. Press **[F7]** and wait for the display to show the *BUS DEVICES* menu.
4. Press **[F7]**. The display shows the lowest unit number and its device name.
5. Press the **A**, **B**, or **menu scroll buttons** until the display shows the programming touchpad unit number.
6. Press **[0]** to delete the device and its unit number from panel memory.
7. Exit program mode and disconnect the programming cable from the panel header.

Testing

Note

Contact the central monitoring station before activating alarms, to avoid dispatching local police and fire departments.

Test the touchpad by arming/disarming the system, activating the touchpad panics, bypassing sensors, and by turning chime and lights on/off to verify correct operation. Refer to the panel *User’s Manual* for complete system operating instructions.

Adjusting Display Brightness and Contrast

The touchpad display can be adjusted for easier viewing to help compensate for lighting conditions in the touchpad location.

The brightness adjustment lightens or darkens the background. The contrast adjustment lightens or darkens the text.

To adjust display brightness:

1. Enter user programming mode by pressing **[F8] + user, partition, or system master [C][O][D][E]**. The display shows *SYSTEM MENU*, then *TIME AND DATE* (Concord panels with software versions 1.0–1.6 display *USER CODES*.)
2. Press the **A**, **B**, or **menu scroll buttons** until the display shows *OPTIONS*, then press **[F7]**. The display shows *DOWNLOADING ON/OFF (current setting)*.
3. Press the **A**, **B**, or **menu scroll buttons** until the display shows *TOUCHPAD BRIGHTNESS 2* (default setting).
4. Enter a setting from **0** (darkest background) to **3** (brightest background), then press **[F7]**. The display flashes the entered selection, then stops after pressing **[F7]** and displays the new setting and brightness level.
5. Exit user programming mode.

To adjust display contrast:

1. Enter configuration mode by pressing the **[0]** and **[6]** buttons together for at least two seconds. The display shows *DA n*.

2. Press and release the [1] and [2] buttons together repeatedly, until the desired contrast level is displayed.
3. Press [3] and the display briefly shows *DONE*, then shows the time and date.

Troubleshooting

Table 3 describes what to do if the touchpad does not operate correctly.

Table 3: Troubleshooting

Problem	Action/Solution
Touchpad doesn't power up (no display and no beeps when buttons are pressed).	<ol style="list-style-type: none"> 1. Check for secure and correct wiring connections at touchpad and panel terminals. 2. Make sure panel battery is connected correctly and that the panel transformer is plugged in. 3. Make sure panel transformer is not plugged into an electrical outlet controlled by a switch. Relocate transformer to an unswitched outlet location, if necessary. 4. Make sure maximum available power is not exceeded (see panel <i>installation instructions</i>).
Display shows ***** or <i>CALL SERVICE NOW</i> .	<ol style="list-style-type: none"> 1. Check for secure and correct wiring connections at touchpad and panel terminals. 2. Touchpad ID is conflicting with another bus device ID (software versions 1.0 - 1.6 only). Change touchpad unit number (see next section).
Touchpad display appears blank, but beeps sound when buttons are pressed.	<ol style="list-style-type: none"> 1. Check the touchpad display contrast setting. It may be set to 0 (no display).
Touchpad display shows a flashing *, indicating a trouble condition and system doesn't respond to commands from touchpad.	<ol style="list-style-type: none"> 1. Check for secure and correct bus wiring connections (terminals A and B) at touchpad and panel. 2. Make sure touchpad unit number is set to a different number than all other bus devices. If necessary, change the touchpad unit number (see procedure on this page). (Concord panels with software versions 1.0-1.6 only.)
Display shows valid information but system does not respond to commands from touchpad.	<ol style="list-style-type: none"> 1. Touchpad ID was not learned by panel because the number of connected bus devices exceeds the panel limits. Re-configure the system so there are no more bus devices than the panel can handle (see panel <i>installation instructions</i>).

Changing the Touchpad Unit Number (Concord Panels with Software Version 1.0-1.6 Only)

Use the following guidelines when changing device unit numbers to avoid communication conflicts between bus devices and the panel:

- All bus devices with DIP switches (LED Touchpads, ESMs, HIMs, etc.) must be set to the desired unit number before applying power and entering program mode.
- Whenever possible, assign touchpad unit numbers before all other panel programming.

To change the touchpad unit number:

1. At the touchpad, press and hold the [0] and [6] buttons together for at least 2 seconds. The display should show *DA n*, where *n* is the current touchpad unit number.

Note

At this time, the touchpad is in configuration mode and no longer communicating to the panel. The system may immediately indicate a bus failure. Ignore the failure and continue with the procedure. The bus failure will clear after Step 5 below.

2. Press [4]. The display shows *ENTER _*.
3. Enter the desired unit number (0 - 3 for Concord Express, 000 - 015 for all others), then press [4]. The display shows the new touchpad unit number.

Note

Do not use unit number 15 in Concord RF systems.

4. Press [3] to exit from the configuration mode.

Note

If the new touchpad unit number was previously learned by the panel, communication between the touchpad and the panel begins immediately. However, if the new touchpad unit number has never been learned by the panel, continue with step 5.

5. Force the panel to scan bus devices as follows:

For systems where this is the only installed touchpad, remove panel AC and battery power, then re-apply power.

For systems with more than one touchpad, go to another system touchpad and enter **8 + installer/dealer** [0][0][0][E] (default = 4321) + [0] + [1]. The display shows SCANNING BUS DEVICES, then a time and date display.

The touchpad and all other bus devices should operate correctly and any bus failures should be cleared.

Note

If the panel still indicates a bus failure the panel may have previously learned a unit number that is no longer used by any bus device. See the specific panel Installation Instructions for more information on deleting unused unit numbers.

Specifications

- Compatibility: Concord, Concord Express, Concord Ultra
- Power Requirements: 12 VDC nominal (See Table 1 for additional power requirements.)
- Temperature Range: 32°F (0°C) to 120°F (49°C)
- Maximum Humidity: 95% relative, non-condensing
- Dimensions: 5.75 in. x 5.75 in. x 1.0 in. (L x W x D)
- UL Listings (see note):..... UL 985 Household Fire Warning System Units
- UL 1023 Household Burglar-Alarm System Units
- UL 1610 Central Station Burglar-Alarm Units (Commercial Burglary)

Note

See specific panel Installation Instructions for complete UL installation requirements for the system you are installing.

Notices

FCC Part 15 Information to the User

Changes or modifications not expressly approved by GE Security can void the user’s authority to operate the equipment.

FCC Part 15 Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the affected equipment and the panel receiver to separate outlets, on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.



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