

Overview

The Precis Remote X/Y Control Panel is available in two configurations: 8x4 or 12x8, each with or without digital volume control. For complete documentation, see the *AMX AutoPatch Software & Documentation CD* or visit www.amx.com.

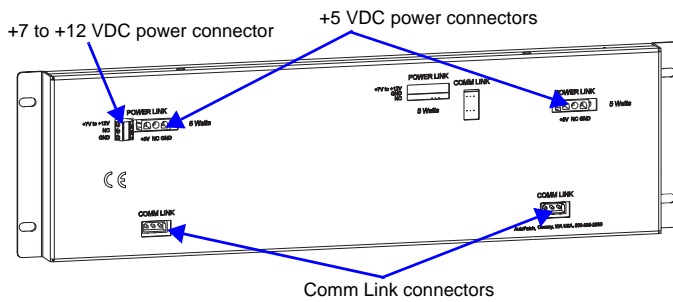


FIG. 1 Precis Remote X/Y Control Panel rear view

General Specifications

Specifications	
Approvals	CE
Cable for XNNet Communications	Two-conductor, 20 AWG, 7/28 strand cable with drain wire or shield (such as Alpha 2412C) Distance 1312 ft. (400 m) between remote and switcher Distance 1640 ft. (500 m) total for linking purposes
Power	+7 VDC to +12 VDC @ ≥ 500 mA Or +5 VDC @ ≥ 500 mA
Operational Temperature	32° - 110° F (0° - 43° C)
Humidity	0 to 90% non-condensing
Dimensions	1.64 in. (4.17 cm) depth 18.92 in. (48.06 cm) width with mounting ears 5.2 in. (13.21 cm) height, 3 RU
Weight	Approximately 2 lb. (0.91 kg) per panel

Installation

ESD Warning: Avoid ESD (Electrostatic Discharge) damage to sensitive components; be sure you and the equipment are properly grounded before touching any internal materials.

Rack Mounting

Precis Remote panels are designed to fit in a standard EIA 19 in. (48.26 cm) rack.

To install the Precis Remote panel in a rack:

- Place panel in a rack and secure with front-mounting screws.

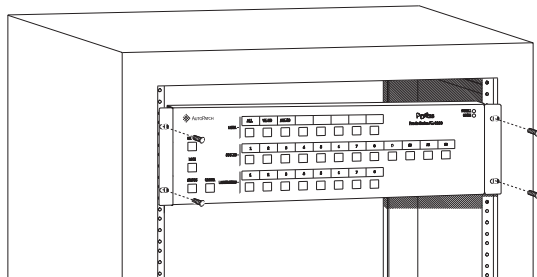


FIG. 2 Secure panel to rack

Connecting Remote Control Panel to an Enclosure

Communication Cable Requirements

- Two-conductor, 20 AWG, 7/28 strand cable with a drain wire or shield, such as Alpha 2412C (customer supplied)
- Max. length of cable: 1640 ft. (500 m) total, including linked panels

To connect link cables:

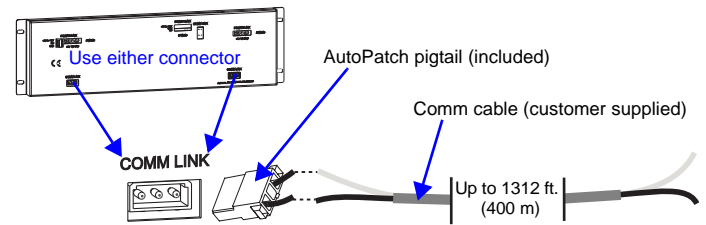


FIG. 3 Comm Link connector & wiring

- Attach the two wires of the AutoPatch pigtail (included) to the communication cable (customer supplied).
- On the rear of the panel, plug the AutoPatch pigtail into either Comm Link connector (FIG. 3).
- On router's CPU, unplug the XNNet connector (for connector location, see router's documentation).
- Loosen the two outer screws on the connector.
- Insert the two comm cable wires from the panel into two outer slots of the XNNet connector, leaving center slot empty. Either wire goes in either outside slot.
- Tighten screws and plug connector back into CPU.

Linking Multiple Panels

Precis Remote panels can be linked together in a daisy chain to create multiple control points for a single system. XNNet link cables can be attached to either Comm Link. The total distance of the cable runs cannot exceed 1640 ft. (500 m).

On large control networks, the last linked control panel may require termination with a 120 ohm resistor on the unused link connector. For termination information, see the control panel instruction manual.

Applying Power

Power Requirements

Important: The AutoPatch transformer (optional) can only be used with the +7 to +12 VDC connector.

For other power sources:

- +7 to +12 VDC connector – acceptable power is +7 to +12 VDC with at least 500 mA
- +5 VDC connector – acceptable power is +5 VDC with at least 500 mA
- Always use a UL approved power source. Check the power source's documentation for information specific to that power source

To apply power to the panel using the AutoPatch wall transformer:

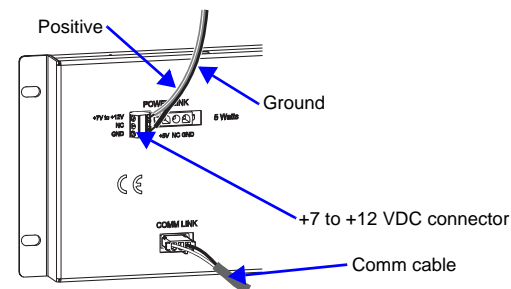


FIG. 4 Remove power connector, wire, and replace

- Unplug the +7 to +12 VDC power connector on rear of panel.
- Loosen the two outer screws and insert the power cable wires (FIG. 4). The side of the wire with the white stripe is positive; the other side ground.
- Tighten both screws and plug the connector back into the panel.
- Plug the wall transformer into the power source.

Note: After applying power, check the Power LED on the front of the panel. If it is not illuminated, check the power link on the rear of the panel.

Completing the Installation

We recommend completing the installation by executing a test switch routing Input 1 to Output 2.

To execute a test switch:

- Press the Cancel Key to clear the panel for switching.
- Press the All Level Key.
The All Level Key illuminates.
- Press Source Key 1.
Source Key 1 blinks.
- Press Destination Key 2.
When Destination Key 2 illuminates, the switch is successful.

Operation

Keys & Functions

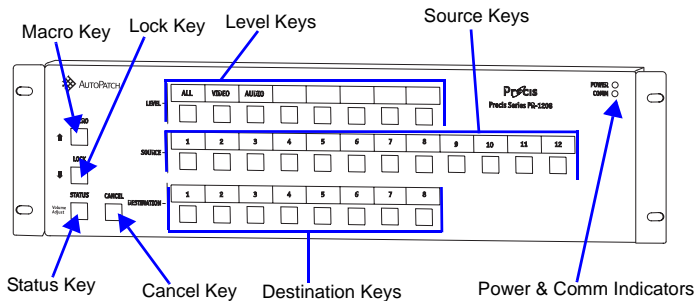


FIG. 5 Front view of a 12x8 PreciS Remote with volume control

- **Macro Key** – places the panel in Macro mode for executing local presets
- **Lock Key** – locks and unlocks panel operations (password required)
- **Status Key** – places the panel in Status mode
- **Cancel Key** – cancels an incomplete command and clears panel for switching
- **Level Keys** – activates levels for switches or status inquiries; also used to enter macros and password
- **Source Keys** – select a source (input) on specified level; also used to enter macros
- **Destination Keys** – select a destination (output) on specified level; also used to enter macros

A PreciS Remote Panel operates in three standard modes: Switch (default), Status and Macro. Use Switch mode to execute switches, Status mode to verify signal status, and Macro mode to execute macros (local presets). An additional mode, Lock mode, enables the panel to be locked. An optional fifth mode, Volume Adjust, is also available on some panels.

Switch mode is the default mode. It can be accessed at any time by pressing the Cancel Key.

Executing / Disconnecting Switches

Note: When executing or disconnecting switches, check the Comm LED on the control panel front to make sure it blinks. If the LED does not blink, check the Comm Link connection on the rear of the control panel and the connection at the enclosure.

Before executing or disconnecting a switch, make sure the panel is cleared for switching by pressing the Cancel Key (all lights on the panel turn off).

To execute a switch:

Note: You may select the destination(s) before selecting the source. Destinations can receive signals from only one source at a time.

1. Press a Level Key to select a level.
(If no level is selected, the system defaults to "All Level" state, Audio-follow-Video).
The Level Key illuminates.
2. Press a Source Key to select a source.
The Source Key flashes.
Any destinations already routed to that source illuminate after a slight delay.
3. Press a Destination Key(s) to select a destination(s).
The Destination Key illuminates.

To disconnect a switch:

Important: Disconnecting a source (input) disconnects all destinations (outputs) receiving that signal.

1. Press a Level Key to select a level.
(If no level is selected, the system defaults to "All Level" state, Audio-follow-Video).
The Level Key illuminates.
2. Select a Source Key.
The Source Key flashes and destinations routed to that source signal illuminate after a slight delay.
3. Select an illuminated Destination Key.
The light turns off, and that destination (output) is disconnected.

Or

1. Press a Level Key to select a level.
(If no level is selected, the system defaults to "All Level" state (Audio-follow-Video).
The Level Key illuminates.
2. Select a Destination Key.
The Source Key for the source routed to that destination illuminates.
3. Select the illuminated Source Key.
The light turns off, and that source (input) is disconnected from all destinations (outputs).

Verifying Signal Status

To verify signal status:

1. Press the Status Key to put the panel in Status mode.
The Status Key illuminates and all other lights turn off.
2. Press a Level Key to select a level.
(If no level is selected, the system defaults to "All Level" state, Audio-follow-Video).
The Level Key illuminates.
3. Press a source (input) or destination (output) key.
The pressed key illuminates.
When verifying a source (input), all the destinations (outputs) receiving a signal from that input illuminate. If no destination (output) keys illuminate, the signal is not routed or is not available on that level.
Or
When verifying a destination (output), the source (input) key illuminates, showing the source routed to the destination being verified. If no source key illuminates, the signal is not routed or is not available on that level.
4. Press the Cancel Key to clear the panel for further switching.
The Status, Source, and Destination Keys turn off.

Audio Adjustments (Optional)

If the system is equipped with Volume Control, it also supports Input Gain Control. When the volume is lower than -30 dB, an increase or decrease of 1 dB occurs each time the Up Arrow Key or the Down Arrow Key is pressed and released. When the volume is higher (louder) than -30 dB, the incremental change is 0.5 dB.

Important: Input Gain Control adjustments can be made in the same manner as Volume Adjustments using the input (source) keys instead of the output (destination) keys. We strongly recommend input gain adjustments be made only by a qualified installer or dealer.

Volume Keys (optional)

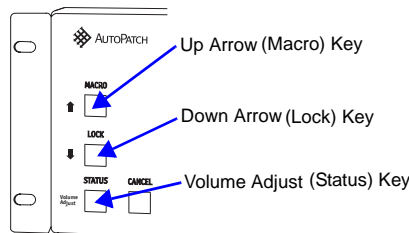


FIG. 6 Volume Adjust Keys

- **Volume Adjust (Status) Key** – places panel in Volume Adjust mode (hold key down until it flashes)
- **Up Arrow (Macro) Key** – increases volume while in Volume Adjust mode
- **Down Arrow (Lock) Key** – decreases volume while in Volume Adjust mode

To adjust volume:

1. Press the Cancel Key to clear panel for changing modes.
2. Press and hold the Volume Adjust Key until it illuminates and then flashes.
The panel is in Volume Adjust mode.
3. Press a destination key to select the output that requires audio adjustment.
The destination key illuminates, along with the Up Arrow and Down Arrow Keys.
4. Increase audio by pressing and releasing the Up Arrow Key.
Decrease audio by pressing and releasing the Down Arrow Key.
The pressed key flashes and then stays illuminated.
5. Repeat Step 4 until the desired volume level is reached.
6. Select another destination to adjust.
Or
Press the Cancel Key to clear the panel for further switching.

Note: Pressing the Cancel Key does not cancel any of the volume adjustments that were just entered.

Additional Information Covered in the PreciS Remote X/Y Control Panel Instruction Manual

See the instruction manual on the CD or at www.amx.com for the following:

- Executing (pre-defined) local presets / macros
- Linking control panels
- Locking / unlocking the panel
- Setting a password