

INSTRUCTIONS MAX® 4310

Thank you for choosing Panamax . The MAX® 4310 is designed to provide maximum protection for audio/video equipment with external signal connections such as cable TV, rooftop antenna and DBS satellite systems.

INSTALLING THE MAX® 4310

NOTE: The MAX® 4310 and the connected equipment must be indoors and in the same building.

AC Installation

1. Plug the MAX® 4310 directly into a properly grounded 3-wire AC outlet*.
2. Turn the MAX® 4310 on.
3. Plug in one of the pieces of equipment you want to protect and turn the equipment on.

If the equipment is working correctly, continue to plug in and turn on your equipment. In the extremely unlikely event that everything does not work perfectly, stop and read the troubleshooting section. If you continue to have problems, call PANAMAX Customer Relations Department at 800-472-5555, USA and Canada.

*Many old buildings are inadequately wired. It is very common for a building to be improperly grounded. Building wiring and grounding must conform to applicable NEC (USA) or CEC (Canada) codes for the PANAMAX connected equipment policy to be valid.

Note to CATV Installer:

This reminder is provided to call the attention to Article 820-40 of the NEC. That article provides specific guidelines for proper grounding. It specifies that the cable ground shall be connected to the grounding system of the building and as close to the point of cable entry as practical.

Satellite Coax Installation **

1. Connect the coax cable from the satellite dish to a Satellite coax terminal on the MAX® 4310.
2. Connect the provided coax jumper cable to the other Satellite coax terminal on the MAX® 4310.
3. Connect the other end of the coax jumper cable to the input jack on your satellite receiver.

Cable TV or Rooftop Antenna Coax Installation **

1. Connect the coax cable from the wall or floor plate to a CATV/ANT coax terminal on the MAX® 4310.
2. Connect the provided coax jumper cable to the other CATV/ANT coax terminal on the MAX® 4310.
3. Connect the other end of the coax jumper cable to the input jack on your television, VCR, or satellite receiver.

**There is no designated input or output jack for the MAX® 4310 Satellite and CATV/ANT coax terminals. The coaxial protection circuitry is bi-directional in both signal transmission and protection capabilities.

Phone Installation

1. Connect a phone cable from the wall jack to the LINE terminal on the telephone jack on the MAX® 4310.
2. Connect the provided phone line cable from the EQUIP terminal on the MAX® 4310 to the input jack on your satellite receiver. **Please note that the protection circuitry will not work if these lines are reversed.**

Rack Mounting

An optional rack mount kit is available. Order # GRM2205.

TROUBLESHOOTING

There is no AC power to my equipment, or my equipment doesn't turn on.
Make sure that the MAX® 4310 is plugged into a working AC outlet. Check all AC connections.

Make sure the MAX® 4310 and connected equipment is turned on. If you are using the 12VDC trigger, make sure that the source is actually supplying the voltage needed to activate the MAX® 4310.

Check to see if the circuit breaker on the MAX® 4310 needs to be reset (press in).

The MAX® 4310 circuit breaker disconnects AC power from the connected equipment.
You have exceeded the ampere rating for your surge protector. As a temporary fix, disconnect one or more pieces of equipment. Ask your dealer about additional PANAMAX products that may be required.

There is no picture or sound on my TV .

Check the coaxial connections, making sure that they are correctly and securely installed. Ensure that the TV set is plugged into a powered AC outlet.

When running the DBS system test, the DBS connection displays as failed.

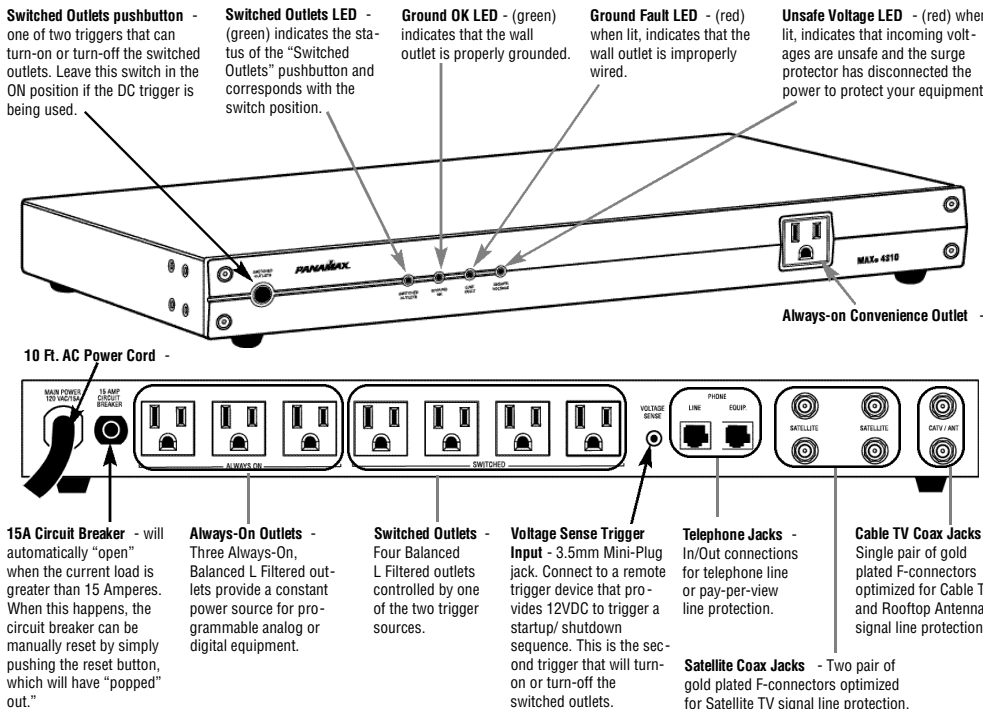
Check the appropriate connections to ensure that they are correctly and securely installed.

If you continue to have trouble with your MAX® 4310 or this section has not fixed the problem, please call PANAMAX Customer Relations Department at 800-472-5555.

CONTACTING PANAMAX

For product and warranty information, dealer information, and other general information contact Customer Relations at:

Email: custrelations@panamax.com
Web: www.panamax.com
Fax: 707-283-5901
Phone: 800-472-5555
or 707-283-5900,
7:30 a.m. - 5 p.m.PST



MAX® 4310 PRODUCT SPECIFICATIONS

AC Surge Protection	
Line Voltage.....	120V, 50/60 Hz
Maximum Current Rating.....	15A
UL 1449 Surge Suppression Rating.....	330V
Protection Modes.....	L-N, L-G, N-G
Initial Clamping Level.....	200V Peak, 141V RMS
Response Time.....	<1ns
Joule Rating.....	1650 Joules
Peak Impulse Current.....	52,000A
EMI/RFI Noise Filtration.....	50dB (100KHz - 1 MHz)
Catastrophic Surge Circuit.....	YES
Thermal Fusing.....	YES
Over/Under Voltage Protection.....	YES
Over-voltage shutoff threshold.....	147V ±8
Under-voltage shutoff threshold.....	84V±6

DC Trigger	
Connection.....	3.5mm mini-plug
Voltage and Polarity.....	5-30VDC, bi-directional
Current Requirement.....	>10mA

Satellite Circuit	
Clamping Level.....	27V
Attenuation.....	<1 dB from 950MHz - 2.2GHz
Shielded.....	YES
Connections.....	Gold plated, Female "F"

CATV/ANT Circuit	
Clamping Level.....	0.7V
Attenuation.....	<1 dB from 5MHz - 950MHz
Shielded.....	YES
Connections.....	Gold plated, Female "F"

Telephone Circuit	
Clamping Level.....	260V
Capacitance.....	30pf (approx.)
Suppression Modes.....	Metallic & Longitudinal
Wires Protected.....	.2 wire/ 1pr. (Pins 4,5)
Fuseless/Auto-Resetting.....	YES
Connections.....	RJ-11/45



1690 Corporate Circle, Petaluma, 94954 • Phone 707-283-5900 • Toll Free 800-472-5555 • Fax 707-283-5901 • www.panamax.com

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