

# Power Protection Series PD7BC

Thank you for choosing the ETA PD7BC. The PD7BC 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 PD7BC

**NOTE:** The PD7BC and the connected equipment must be indoors and in the same building.

### AC Installation

1. Plug the PD7BC directly into a properly grounded 3-wire AC outlet\*.
2. Turn the PD7BC 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 ETA Customer Relations Department at **800-321-6699**.

\*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 ETA 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 PD7BC.
2. Connect the provided coax jumper cable to the other Satellite coax terminal on the PD7BC.
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 PD7BC.
2. Connect the provided coax jumper cable to the other CATV/ANT coax terminal on the PD7BC.
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 PD7BC 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 PD7BC.
2. Connect the provided phone line cable from the EQUIP terminal on the PD7BC to the input jack on your satellite receiver. **Please note that the protection circuitry will not work if these lines are reversed.**

### TROUBLESHOOTING

**There is no AC power to my equipment, or my equipment doesn't turn on.**  
Make sure that the PD7BC is plugged into a working AC outlet. Check all AC connections.

Make sure the PD7BC 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 PD7BC.

Check to see if the circuit breaker on the PD7BC needs to be reset (press in).

**The PD7BC 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 ETA 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.

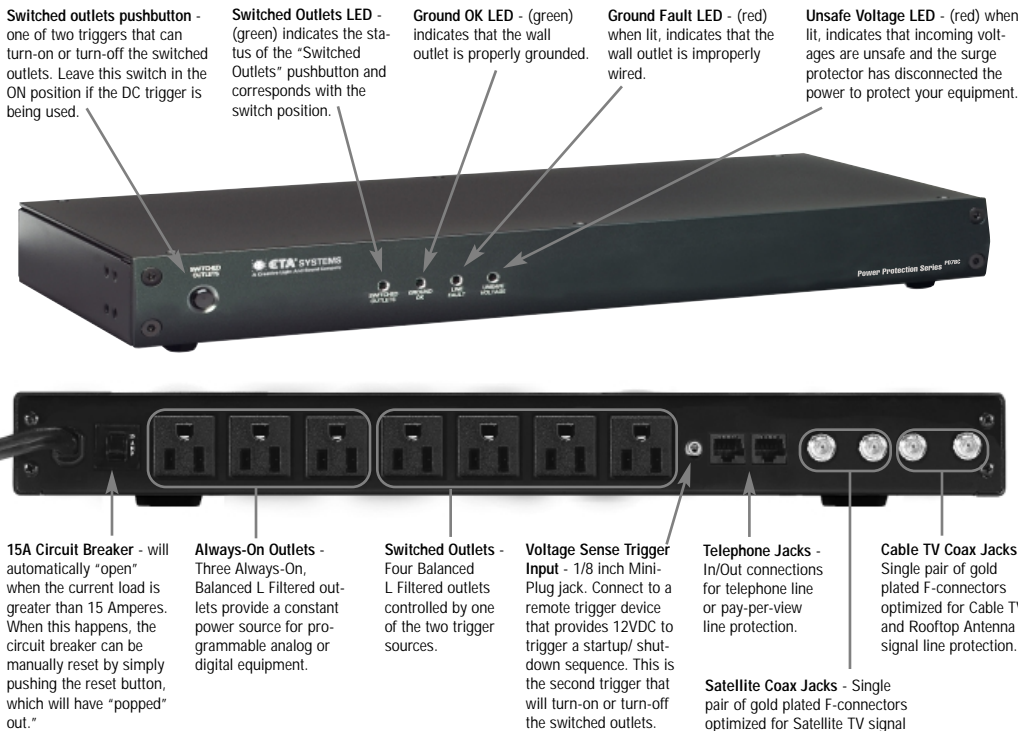
**The PD7BC can only connect to a single LNB signal line, but I have a dual LNB.**  
The PD7BC was designed for single LNB DBS satellite systems. ETA offers several products that provide protection for dual LNB systems. Please ask your dealer or call ETA Customer Relations Department for additional product recommendations.

If you continue to have trouble with your PD7BC or this section has not fixed the problem, please call ETA Customer Relations Department at **1-800-321-6699**.

### CONTACTING ETA

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

Email: [eta@etasys.com](mailto:eta@etasys.com)  
Web: [www.etasys.com](http://www.etasys.com)  
Fax: **330-425-9700**  
Phone: **800-321-6699**  
or **330-425-3388**  
7:30 a.m. - 5:30 p.m. EST



**Switched outlets pushbutton** - one of two triggers that can turn-on or turn-off the switched outlets. Leave this switch in the ON position if the DC trigger is being used.

**Switched Outlets LED** - (green) indicates the status of the "Switched Outlets" pushbutton and corresponds with the switch position.

**Ground OK LED** - (green) indicates that the wall outlet is properly grounded.

**Ground Fault LED** - (red) when lit, indicates that the wall outlet is improperly wired.

**Unsafe Voltage LED** - (red) when lit, indicates that incoming voltages are unsafe and the surge protector has disconnected the power to protect your equipment.

**15A Circuit Breaker** - will automatically "open" when the current load is greater than 15 Amperes. When this happens, the circuit breaker can be manually reset by simply pushing the reset button, which will have "popped" out.\*

**Always-On Outlets** - Three Always-On, Balanced L Filtered outlets provide a constant power source for programmable analog or digital equipment.

**Switched Outlets** - Four Balanced L Filtered outlets controlled by one of the two trigger sources.

**Voltage Sense Trigger Input** - 1/8 inch Mini-Plug jack. Connect to a remote trigger device that provides 12VDC to trigger a startup/shut-down sequence. This is the second trigger that will turn-on or turn-off the switched outlets.

**Telephone Jacks** - In/Out connections for telephone line or pay-per-view line protection.

**Cable TV Coax Jacks** - Single pair of gold plated F-connectors optimized for Cable TV and Rooftop Antenna signal line protection.

**Satellite Coax Jacks** - Single pair of gold plated F-connectors optimized for Satellite TV signal line protection.

## PD7BC 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 shutdown threshold.....	147V ±8
Under-voltage shutdown threshold.....	.84V±6

### DC Trigger

Connection.....	1/8" mini-plug
Voltage plus Polarity.....	12VDC, bi-directional
Current Requirement.....	30mA

### Satellite Circuit

Clamping Level.....	27V
Attenuation.....	<1 dB from 950MHz - 2.05GHz <2.4dB @ 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



A Creative Light And Sound Company

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