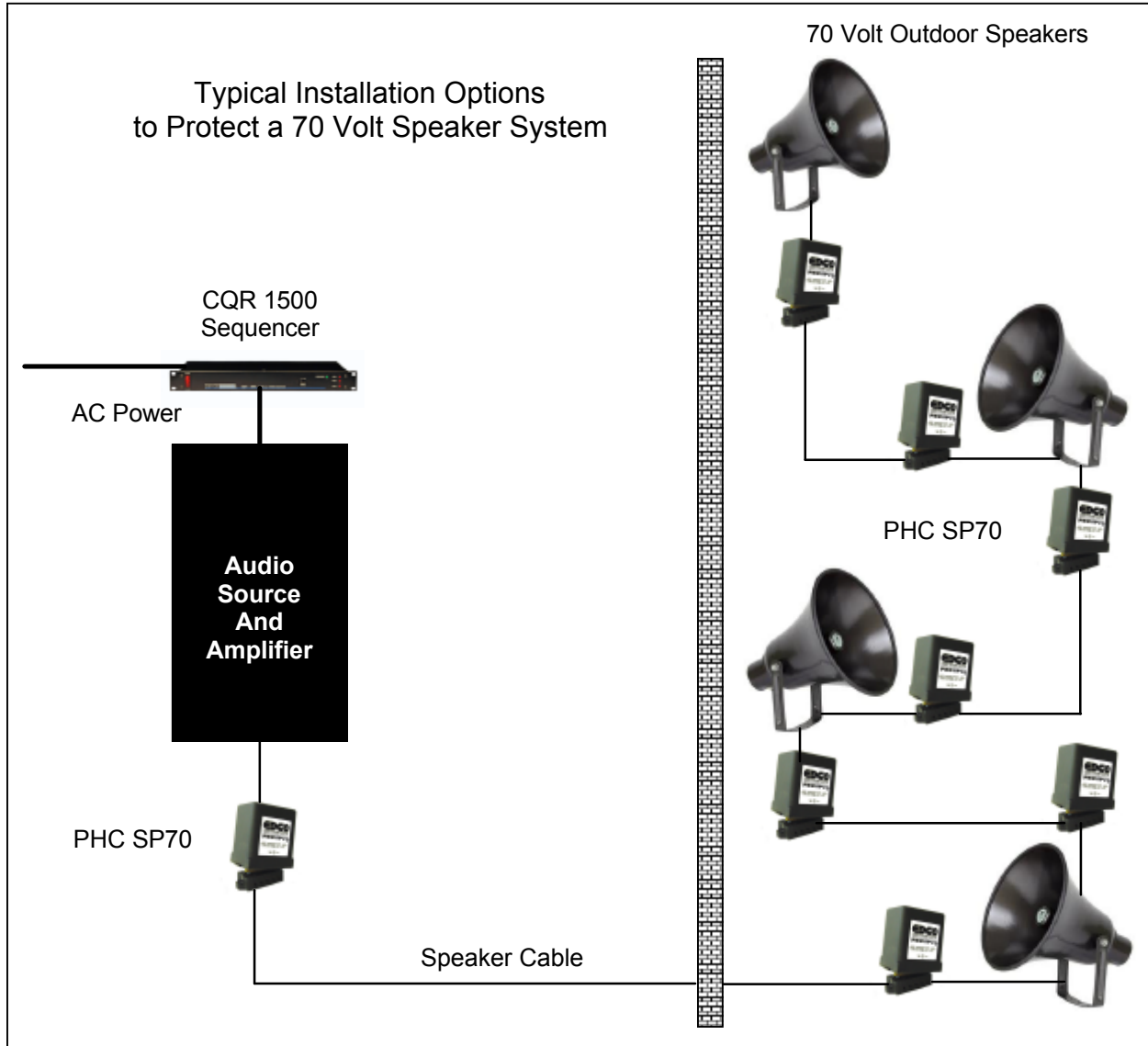


70 VOLT SPEAKER Surge Protection Speakers and Audio Head End Equipment



Any equipment installed outdoors is an attractive target for lightning. Speakers mounted on light poles or on tops of buildings are great examples. Lightning striking a speaker or high current induced into speaker leads can cause catastrophic damage to audio equipment, including other connected speakers. Protecting that equipment is simple and inexpensive with the EDCO PHC SP70.

In this example all speakers are protected on both speaker leads. For installation or budget reasons a single PHC SP70 can be installed to protect only the audio equipment rack.

Turning audio equipment on and off in the proper order is an important part of prolonging speaker life while avoiding irritating "thumps" that occur whenever an amplifier exaggerates the effect of turning on a mixer or other signal source. The Juice Goose CQR 1500 is one of several power sequencers designed to automate the proper turn on and off order to help maintain audio equipment performance and service life.

In Line Surge Protection from EDCO

PHC SP70 is designed to protect components where operating currents can run as high as five amps (350 watts at 70 volts). The PHC Series includes devices tuned for application with various voltages from 12 to 120. (See detailed product data sheet for information about these optional designs.) The protection circuitry in the PHC SP70 activates at levels of 100 volts or higher, making it a perfect companion for 70 volt speaker systems.

The PHC Series is designed with three stage component protection to provide sub nanosecond response to power surges up to 5,000 amps. This design includes a staged complement of varistors (MOV), wire wound inductors and silicone avalanche diodes (SAD). This design is tuned to have ultra low resistance of only 0.02 ohms per wire pair.

A gold plated card edge on the PHC mates with a PCB1B mounting base (sold separately). To provide additional protection this mounting base is to be wired to ground. During routine maintenance or following a strong surge event, the PHC can be replaced simply by removing it from the mounting base.

Power Sequencing from Juice Goose

CQR 1500 provides a simple and cost effective means of remotely activating AC power in a three step sequence for application to both sensitive audio and high amperage equipment. The sequence process of the CQR 1500 can be controlled with the switch on the front of the unit or by way of a remote latching contact closure connected to a terminal strip on the back. The CQR 1500 features three sequenced duplex receptacles and one unswitched AC receptacle. Each duplex has its own preset turn on and off timing. Signal source and processing equipment can be powered by the first sequence stages while amplifiers are powered by the last ones. All power down sequences are exact reversals of the power up sequences.

The CQR is a great choice for single rack applications where 15 amp sequential power control is desired. For installations involving higher current or where multiple racks are involved see the Juice Goose CQ 1520 and other CQ Series products.

EDCO pioneered use of *Hybrid Series* surge protection in the mid 1970's. Originally designed to protect digital traffic light controllers, this multiple component approach has been successfully applied in a range of markets and applications including security, telecommunications and industrial controls. EDCO is a brand name of Emerson Network Power.



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