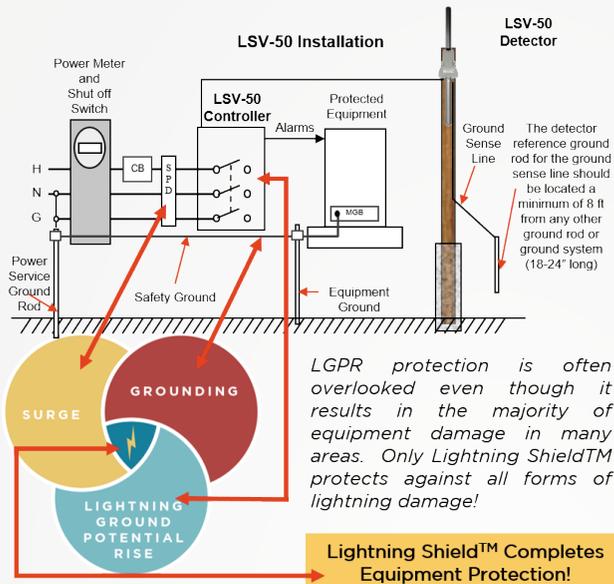


## Only Lightning Shield™ Completes Equipment Protection

Lightning damage is the Achilles heel of electrical and electronic equipment. It has been long known that grounding effectiveness is limited by lightning frequency & soil resistivity and surge protection provides limited protection.

Pre-emptive disconnection from the AC power supply is the only proven protection against lightning ground potential rise (“LGPR”) and other forms of lightning originated damage.

Lightning Shield™ protects against all forms of lightning damage and works seamlessly with your grounding system and surge protection to provide complete protection for your equipment.



*LGPR protection is often overlooked even though it results in the majority of equipment damage in many areas. Only Lightning Shield™ protects against all forms of lightning damage!*

## LSV-50

Automated Pre-emptive Physical Isolation  
The ONLY proven way to prevent lightning damage!

Alokin Industries  
5930 S. 57th Street  
Suite A  
Lincoln, NE 68516

Alokin Industries  
5930 S. 57th Street  
Suite A  
Lincoln, NE 68516



## LIGHTNING SHIELD™



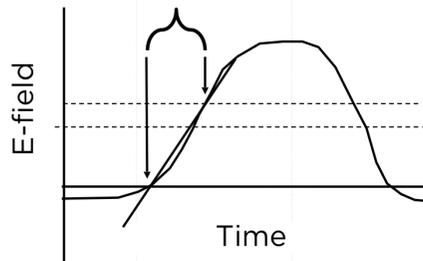
We Stop Lightning Damage

Is your equipment protected from lightning damage?

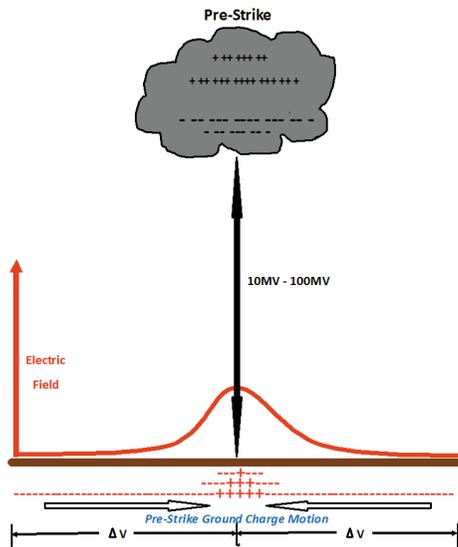
## Identifies a Pending Lightning Strike Moments Before Discharge

Prior to a lightning strike, negative charge accumulates in the lower portion of a storm cell causing a concentration of offsetting positive charge in the earth. During this process the earth's normal electric field ("E-field") of 100V/m increases to over 2,000 V/m and changes from negative to positive polarity.

Lightning Shield™ identifies a pending lightning strike by monitoring the change in the "E-field" and when the rate of change exceeds safe limits equipment is isolated from the AC power supply BEFORE THE LIGHTNING STRIKES!

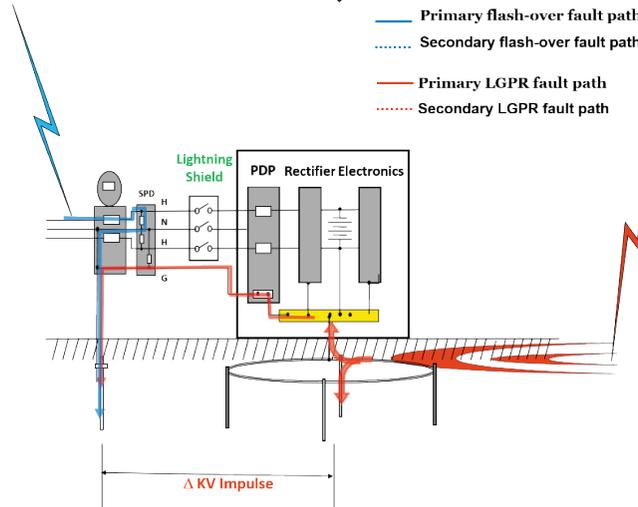


A pending threat is detected when the E-field ramp up profile exceeds the ramp time threshold.



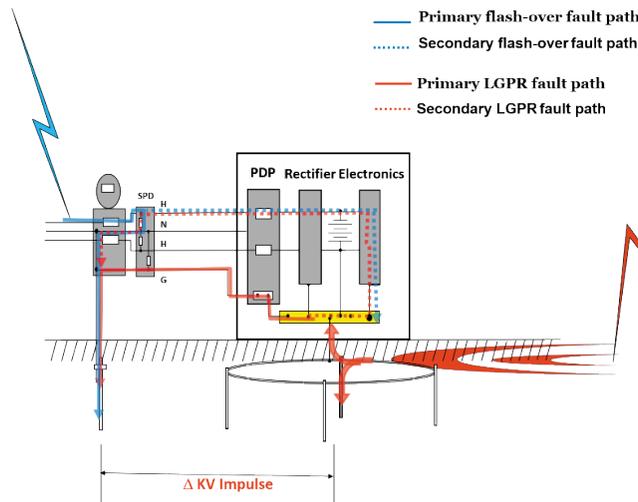
Elevated E-field prior to a lightning strike.

## Pre-emptively Isolates Equipment from the Grid to Prevent Damage

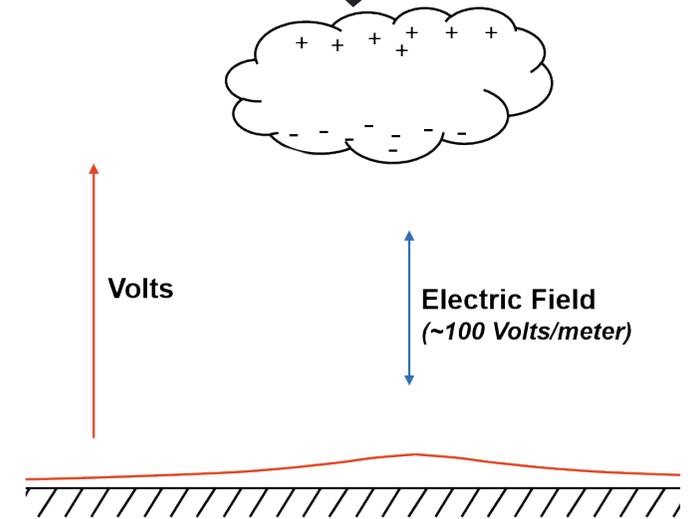


Lightning Shield™ isolates equipment prior to a lightning strike, the drawing above illustrates how Lightning Shield™ eliminates the lightning fault paths through equipment via pre-emptive physical isolation, thus preventing flash-over and lightning ground potential rise damage to equipment.

The drawing below illustrates unprotected equipment and its vulnerability to flash-over surges and lightning ground potential rise.



## Automatically Re-establishes Connection to the Grid When Safe



E-field at a steady state (approx. 100V/m).

Lightning Shield™ automatically re-establishes the AC power supply connection to the protected equipment when lightning threats have passed for a user defined period of time.

If new lightning threat occur during the timer period, the timer simply resets, continuing to provide the most effective lightning protection in the industry until such threat(s) have passed.



Alok Industries  
5930 S 57th St  
Suite A  
Lincoln, NE 68516  
1-800-501-2910  
www.alokin.com

For additional information please contact your Lightning Shield™ representative or Alok Industries.