

We have invested huge funds to create high quality and high tech education facilities. But, schools are under constant attack from transient surges bombarding the electrical system. Over 80% of electrical surge problems are due to transients occurring inside of the facility from daily operations, such as turning on and off facility equipment, all causing costly downtime, failure, and glitches. Transient Protection Design offers power and data surge protection products to protect and maintain peak performance of all facility electronics including lighting systems, elevators & their controls, phone systems, projection systems, copiers, computers, and HVAC components.

**Reduce Downtime**  
**Reduce Maintenance Costs**  
**Extend Equipment Life**  
**Quick Payback**  
**Huge Life Cycle Savings**

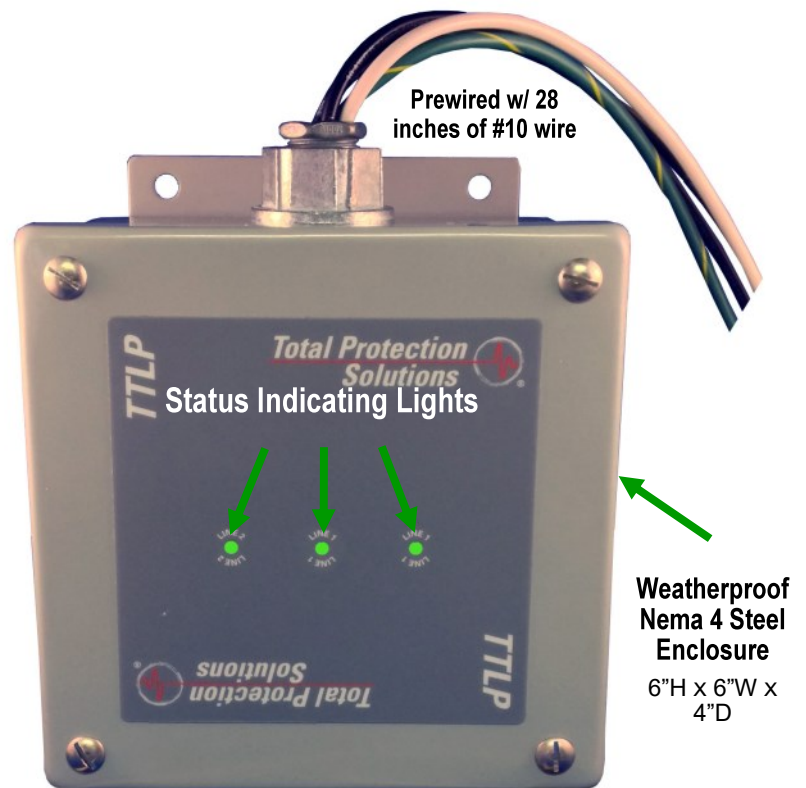
## Surge Suppression Lightning Protection

Model #	Voltage Description
TK-TTLP-1S240-FL	120/240VAC, 3W+G
TK-TTLP-3Y208-FL	120/208VAC Three Phase 4W+G
TK-TTLP-3Y480-FL	277/480VAC Three Phase 4W+G
TK-TT2-065-480NN-FL	480VAC, 3W+G

**Manufactured by Total Protection Solutions**  
 \*International & Other Voltage Configurations Available

- UL 1449 Type 1 SPD
- ETF Technology (Enhanced Transient Filter)
- UL 1283 EMI/RFI Listed Filter
- Install on any size breaker or direct to bus
- 200 KAIC rated fusing
- No over-current protection required
- 25 Year Warranty Including Lightning

**SAVE MONEY!!**  
**Eliminate Damage**  
**Reduce Lockups & Glitches**



Improve the power quality at the breaker panel for your sophisticated electronic loads. Rebooting, reprogramming and replacing processors, circuit boards and components can be a never-ending battle. Problems in the system are as simple as occasional glitches locking up or turning on and off equipment without user input to wide spread damage during a severe lightning storm. **Microprocessors read information through current pulses as binary code (0s and 1s). As different pieces of equipment, appliances and components turn on and off, voltage and current pulses, known as transients, are generated.** These pulses of energy can negatively affect every piece of equipment in the system. The problems will vary depending upon the size and frequency of these pulses. **As microprocessors try to function, these transient pulses of energy will cause lock-ups where data can become lost or corrupted.** Larger pulses will cause catastrophic failure while smaller pulses degrade the life and reliability of these systems and controls.



- Less Noise
- Longer Life
- Better Sound
- Less Lockups
- Clearer Images
- Less Glitches
- Eliminate Lightning Damage



Designed for electrical panels feeding:

Security Systems  
Computers & Servers  
Phone System  
Data Lines  
Lighting Systems

HVAC  
Kitchen Equipment  
Satellite & TV Coax  
Projectors  
Building Automation Systems

Easy Install  
Retrofit or New  
Construction

Improve the  
Bottom Line

Reduce Electrical  
Maintenance Budgets



Extend Life of All  
Equipment, Including  
Bulbs & Ballasts

Prevent Catastrophic Losses  
Due to Lightning Strikes

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[www.TransientProtectionDesign.com](http://www.TransientProtectionDesign.com)

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