

Whether it is a few lights out, erratic operation, glitches, discoloration, or not operating at all, digital signs are prone to surge damage. Due to their height, size and location, maintenance on digital signage can be particularly costly and often needs special equipment such as a bucket truck or high lift. Transient Protection Design offers power and data surge protection products to protect and maintain peak performance of all digital signage equipment including their LED's, drivers, bulbs and ballasts.

## BREAKER PANELS FEEDING SIGNS

| 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 |

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

**Reduce Downtime**  
**Reduce Maintenance Costs**



**Weatherproof**  
**Nema 4 Steel**  
**Enclosure**  
 6"H x 6"W x 4"D

## Surge Suppression - Lightning Protection

### INDIVIDUAL CIRCUIT FEEDING SIGNS

| Model #                   | Voltage Description |
|---------------------------|---------------------|
| TPD-DM24-xxA-DIN2         | 24VAC, 2W+G         |
| <b>*TK-LT120-xxA-DIN2</b> | <b>120VAC, 2W+G</b> |
| *TK-LT250-xxA-DIN2        | 240VAC, 2W+G        |

15, 20 or 30 amp options  
 \*Manufactured by Total Protection Solutions  
 International & Other Voltage Configurations Available

**Extend Equipment Life**  
**Quick Payback**



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 widespread 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.

# Surge and Lightning Protection

# Digital Signage

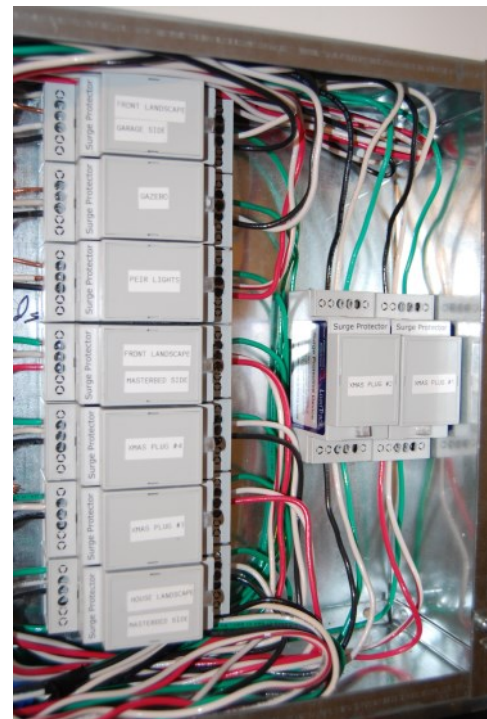


- Less Lockups
- Clearer Images
- Less Glitches
- Eliminate Lightning Damage
- Longer Life

Designed for breaker panel & individual circuits feeding  
 billboards and digital signs:



- Billboards
- Lighted Signs
- DOT
- Advertising
- Neon
- Televisions
- Scoreboards
- Traffic Signs



Surge Suppression units are to be installed inside an enclosure to protect low voltage controls.