

Power Quality Solutions for Convenience Stores, Truck Stops and Travel Centers



Equipment at Risk for Power Surges:



Questions You Should Ask:

Incoming Utility Power:

1. Number of main panels, voltage and current?
2. Generator size, ATS voltage and current?

Point of Sale Devices:

1. Point of sale device brand?
2. Number of registers?

Back Office Equipment:

1. Number of computers?
2. Printers, faxes and electronic safes?
3. Telephone system?

HVAC Equipment, Pumps and Motors:

1. HVAC equipment type, voltage and current?
2. Number of additional pumps and motors, voltage and current?

Fueling Equipment:

1. Brand of Dispensers?
2. Number of Dispensers?

Canopy and Parking Lot Lighting:

1. Canopy lighting type, voltage and current?
2. Parking lot lighting type, voltage and current?
3. Gasoline price signs, voltage and current?

CCTV Equipment:

1. Number of cameras?
2. Number of video recorders?
3. PoE or Coax?

Fire and Burglar Alarm Control Panels

1. Fire panel make and model?
2. Burglar panel make and model?
3. Access control panel make and model?

Your First Line of Defense



INCOMING UTILITY POWER: The Zeus Series is an excellent choice for electrical system surge protection. They offer LED diagnostics, weatherproof enclosures; and all models are UL listed and comply with ANSI/IEEE standards. *Contact factory for additional voltage configurations.

D100-120/2083Y: 100kA/Phase Type 1 SPD (Type 2 Canada), 120/208VAC Three Phase Wye*

D100-277/4803Y: 100kA/Phase Type 1 SPD (Type 2 Canada), 277/480VAC Three Phase Wye*

D200 SERIES: 200kA/Phase, Type 1 SPD (Type 2 Canada), 7 Voltage Configurations Available*

D200M / 300M Series: 200kA & 300kA/Phase Modular, Type 1 SPD, 5 Voltage Configurations Available*



FUELING EQUIPMENT: The Deflector Series with Rapid-Replacement Modules provides advanced, isolated surge protection and noise filtering, yet is easy to monitor, maintain and service without costly downtime.

DTK-DF120S12: 12-Circuit, 120VAC, Smart SPD with Dry Contacts and Audible Alarm

DTK-DF120S1: Individual 120VAC, Smart SPD with Dry Contacts and Audible Alarm

DTK-DF120M: 120VAC Rapid-Replacement Surge Protection Module



POINT OF SALE DEVICES: Protect 120VAC power, and communications devices. Pair with an uninterruptible power supply to provide clean and stable power with built-in AVR stabilizer.

DTK-WM4NETS: 4-Channel, Wall Mount Surge Protector for Ethernet and PoE Devices

DTK-WM8NETS: 8-Channel, Wall Mount Surge Protector for Ethernet and PoE Devices

DTK-UPS600, UPS800: 600VA and 800VA Line-Interactive UPS



CANOPY & PARKING LOT LIGHTING: Engineered to meet stringent D.O.T. standards for outdoor lighting.

DTK-DL480: 480VAC, Single Phase Surge Arrester

DTK-DL240/480: 240/480VAC Single Phase Surge Arrester

DTK-DL2401: 240VAC/277VAC Single Phase Surge Arrester

DTK-DL120: 120VAC, Single Phase Surge Arrester



BACK OFFICE EQUIPMENT: Ideal for network switches, injectors, NVR's and other Ethernet/PoE devices. Pair with an uninterruptible power supply to provide clean and stable power with online double conversion technology.

DTK-RMNETS Series: Rack Mount Surge Protector, up to 24-Channels, PoE Plus, HiPoE Ready

DTK-UPS1500RE, UPS2000RE, UPS3000RE: On-Line, Double Conversion UPS, Tower/Rack Mount



CCTV EQUIPMENT: Data speeds up to 10GbE without signal degradation, PoE Plus, HiPoE Ready

DTK-MRJPOES: Individual PoE Surge Protector

DTK-MRJPOEX: Individual PoE Surge Protector with NEMA 4X Enclosure for Harsh Environments

DTK-PVPIPS: IP Camera Surge Protector with Additional Accessory Protection



HVAC EQUIPMENT, PUMPS & MOTORS: Durable, cost-effective surge protective devices offer performance driven protection. NEMA 4X weatherproof enclosure for harsh environments.

DTK-120/240CM+: 120/240VAC, Split Phase Surge Protective Device (SPD)

DTK-2403CMXPLUS: 240VAC, Three Phase Surge Protective Device (SPD)

DTK-4803CMXPLUS: 480VAC, Three Phase Surge Protective Device (SPD)



FIRE & BURGLAR ALARM CONTROL PANELS: Protect 120VAC power circuits that feed control panels and other critical equipment; as well as all low voltage signaling and notifying circuits. Additional voltages available.**

DTK-120X12: Combines 120VAC Smart SPD with protection for up to 12 SLC/IDC/NAC circuits in one unit

DTK-TSS2: Protect AC power and up to 4 SLC/IDC/NAC Circuits in a NEMA 4X Enclosure

DTK-2MHLP24B: 2-Pair, 24V Loop Circuit Surge Protector**, installs in the DTK120X12 and DTK-TSS2

DTK-DF120S1: Individual 120VAC, Smart SPD with Dry Contacts and Audible Alarm

DTK-2MHLP24BWB: 2-Pair, 24V Loop Circuit Protector with Hard-Wired Mounting Base**



DITEK Surge Protection is your first line of defense for Convenience and Fueling, Video Surveillance, Networking and Communications, Fire, Intrusion Detection, Access Control and AC Power Systems. We have led the industry in the design and manufacturing of surge protection solutions for over 30 years, providing quality products built to order and delivered on time, with

unparalleled factory support and competitive pricing. At DITEK's ISO 9001:2015 certified manufacturing facility in Largo, FL, a highly-trained and culturally diverse workforce utilizes state-of-the-art equipment and lean manufacturing methodologies. DITEK's Technical Support Team is available to answer application or installation questions by phone or Internet live chat. Live and web-based product training, CEU courses and collateral materials are readily available through DITEK's Marketing Group.

Things You Should Know:

What are power surges and spikes?

Surges and spikes are temporary and instantaneous events that increase "normal" electrical line voltage, and can cause serious damage to sensitive equipment.

Conventional fuses and breakers do not guard against surges.

What causes surges and spikes?

Lightning - a direct hit is usually catastrophic.

Proximity Strikes - lightning strikes several miles away causing large voltage spikes along transmission lines.

Brownouts / Blackouts - under-voltage or sag that's immediately followed by an unusually high voltage transient. If your lights flicker or dim, it's usually an indication that a brownout occurred.

Utility Grid Switching - utility companies switching transmission lines from one supply system to another.

Inductive Loads - the switching on and off of electric motors inside or outside a facility (for example air conditioners or heavy machinery).

The effects of surges and spikes are the three D's:

Degradation - gradual deterioration of internal circuitry from repeated power surges.

Destruction - resulting in expensive equipment replacement costs.

Downtime - the most costly effect - can result in lost productivity or lost customers.

The payback for investing in quality surge protection is:

- Reduced downtime
- Extended equipment life
- Increased Customer Satisfaction

What equipment should be protected against power surges?

Surges can be present on any metallic conductor, including utility power lines, telephone lines, computer data lines, and CCTV/CATV cable feeds. Therefore surge protection should be installed on all circuits within a system.



Technical Support: 888-472-6100

800-753-2345

www.diteksurgeprotection.com

One DITEK Center
1720 Starkey Road
Largo, FL 33771

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