



## TVSS—Surge Protection



IPC has teamed up with Ditek Corporation as our supplier and vendor for surge protection equipment. Whether the application you have is electrical, telephone, security, HVAC or utility, Ditek has a solution. Ditek offers a complete product line of over 800 different products.

In addition to the basic components used in a lightning protection system, surge protection equipment is a requirement for a complete system. Surge units are installed on the incoming electric service panel, telephone line and cable television. Surge protector units will provide protection from power surges as well as the effects of lightning strikes. Controlling these surges and excess voltages will minimize your risk and chance of damage to sensitive electronic equipment.

Following is a mere sampling of the many surge protector models for residential and light commercial applications. Normally these models are in inventory and ready for shipment upon receipt of order. For applications not covered by these models, additional information is required so that a model can be specified. The following page is a guideline to assist you. Upon receipt, we will work directly with Ditek's technical support staff for their recommendation.

Please feel free to do your own searching on the Ditek website for all of the available models. Their web address is [www.ditekcorp.com](http://www.ditekcorp.com). Pricing will be supplied on any model requested.



Product Manufactured by: Independent Protection Co., Inc.  
Product Distributed by: Ohio Valley Lightning Protection, Inc.  
520 Leeka Road, New Vienna, OH 45159  
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# TVSS—Surge Protection Information Sheet

Please fill out this form and fax to Independent Protection Co., Inc. at 574-534-3719. Upon our review, we will return this form with our recommendation(s), price and delivery.

**From/To:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**Customer Name:** \_\_\_\_\_ **Your Name:** \_\_\_\_\_  
**Phone No.:** \_\_\_\_\_ **Fax No.:** \_\_\_\_\_  
**Job Ref.:** \_\_\_\_\_ **Location:** \_\_\_\_\_

## INFORMATION REQUIRED FOR SURGE PROTECTION RECOMMENDATION

### **POWER PROTECTION**

- 1) Type of structure being protected: \_\_\_\_\_  
(i.e., small manufacturing facility, hospital, barn, etc.)
- 2) Panel voltage and wiring configuration: \_\_\_\_\_  
(i.e., 277/480 3 phase 4 wire)
- 3) Is panel surface or flush? ☐ Surface ☐ Flush
- 4) Options wanted: \_\_\_\_\_  
(i.e., Integral Disconnect, Surge Counter, Alarm, etc.)
- 5) Panel location: ☐ Inside ☐ Outside
- 6) Available Breaker, or space, in panel? ☐ Yes ☐ No
- 7) Type of equipment to protect: \_\_\_\_\_
- 8) How is equipment connected? ☐ Hardwired ☐ Plug-In
- 9) Voltage and wiring configuration of equipment: \_\_\_\_\_

### **LOW VOLTAGE PROTECTION**

- 1) Type of system: \_\_\_\_\_  
(i.e. Telephone, CCTV, Nurse Call, Computer Network)
- 2) Maximum operating voltage: \_\_\_\_\_
- 3) Maximum operating amperage: \_\_\_\_\_
- 4) Number and size of wires: \_\_\_\_\_
- 5) Method of connection: \_\_\_\_\_  
(i.e. 66 Block, Amphenol, Terminal Strip, etc.)
- 6) Data speed: \_\_\_\_\_
- 7) Length of wire run \_\_\_\_\_
- 8) Will adding 9-18 OHMS affect the system? ☐ Yes ☐ No

### **IPC Response:**

IPC recommendation, price and delivery (specification sheet follows): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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## TVSS—Surge Protection



# DTK-WH5 ★ Whole House Protection Kit

All Whole House Kits Packaged For Presentation.



Kit contains surge for  
AC panel, telephone  
and cable television.

### DTK-2LVLPSCP-RUV

The DTK-2LVLPSCP-RUV is a solid state suppressor for two incoming telephone lines. It provides fully automatic, self restoring over voltage protection, as well as DITEK'S exclusive AutoSneak® over current protection.

### DTK-VSP-A

The DTK-VSP-A is a solid state suppressor for incoming CATV. Provides complete protection before the service splits within the home. It can also be used in conjunction with internet services via your cable TV.

### DTK-120/240HD Series II

The DTK-120/240HD Series II is a solid state, heavy duty surge suppressor for Residential and Commercial use. It can be installed at the service panel or service disconnect. The DTK-120/240HD Series II is internally fused for safety and is 125KA surge current capable.



★ Denotes normally stocked item available for shipment within 48 hours. Items not stocked are available within 14 days.



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# TVSS—Surge Protection



## DTK-120/240 SA (Commercial Structure) ★

### Physical Specifications

**Product Description:** 200KA 120/240V 1(P) Arrester w/Filter

Housing NEMA 4/4X  
Color Gray  
Size 5.25 in. x 5.25 in. x 2.25 in.  
Weight 1.450

### Electrical Specifications

**Class:** Secondary Surge Arrestor, Class C  
**Installation Point:** Meter Base, main panel, disconnect or weatherhead  
**Agency Approvals:** UL-OWHX, cUL, ANSI/IEEE C.62.11  
**Connection Method:** Hard wired, parallel  
**Continuous Current:** Unlimited  
**Response Time:** <5 nSec  
**MCOV:** 250VAC L - N, 500VAC L - L  
**Operating Frequency:** 0 - 400 Hz  
**AC Protection Modes:** L - G, L - L  
**Service Voltage:** 120/240VAC  
**Diagnostics:** Indicator lights for suppression and available ground  
**EMI/RFI Noise Filtering:** up to 50db 100 KHz - MHz  
**Max Surge Current:** 200,000 Amps (8x20 usec)  
**Max Energy Dissipation:** 2640 Joules



## DTK-120/240 HD2 (Residential/Light Commercial AC) ★

### Physical Specifications

**Product Description:** AC hard-wired transient voltage surge suppressor

Housing NEMA 4 Waterproof  
Color Gray  
Size 4.00 in. x 4.00 in. x 2.25 in.  
Weight 1.300

### Electrical Specifications

**Class:** AC Hard-Wired Transient Voltage Surge Suppressor  
**Installation Point:** Electrical Panel, Equipment Disconnect  
**Agency Approvals:** UL 1449, cUL, ANSI/IEEE C.62.41  
**Connection Method:** Hard wire parallel connection  
**Continuous Current:** Unlimited (Parallel Installation)  
**Response Time:** <5 nSec  
**MCOV:** 130VAC (L - N, L - G, N - G)  
**Operating Frequency:** 0 - 400 Hz  
**AC Protection Modes:** L - N, L - G, N - G  
**Service Voltage:** 120 / 240 Split Phase  
**Diagnostics:** Indicator lights - Surge Protection present  
**EMI/RFI Noise Filtering:** 50db 100 KHz - 100 MHz  
**Max Surge Current:** 125,000 Amps  
**Max Energy Dissipation:** 1050 Joules  
**Suppressed Voltage Rating:** 700V (L - L), 400V (L - G, L - N, N - G)



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# TVSS—Surge Protection

## DTK-2P-RUV (2-Line Telephone) ★

### Physical Specifications

**Product Description:** 66 Block Punch Down 2 Pair

Housing: High impact plastic  
Color: Gray  
Size: 2.0 in. x 2.0 in. x .75 in.  
Weight: 0.150

### Electrical Specifications

**Class:** Telephone line protector  
**Installation Point:** 66 block punch down at point of use  
**Agency Approvals:** UL497B  
**Connection Method:** Punchdown on M150 - 66 block  
**Continuous Current:** Unlimited  
**Response Time:** <5 nSec  
**MCOV:** 175VDC  
**Max Surge Current:** 2,400 Amps (per pair)  
**Max Energy Dissipation:** 22 Joules (per pair)  
**Typical Let Through Voltage:** 184.0 - 224.0 (per pair)



## DTK-VSP-A (Coax Cable) ★

### Physical Specifications

**Product Description:** Video Line Coax (F Connector) (CATV)

Housing: High impact plastic  
Color: Black  
Size: 3.25 in. x 1.25 in. x 1.00 in.  
Weight: .0150

### Electrical Specifications

**Class:** Coaxial Cable Protector  
**Installation Point:** CATV Entry  
**Agency Approvals:** UL 1449, cUL, ANSI/IEEE C.62.41  
**Connection Method:** Female IN/OUT  
**Response Time:** <5 nSec  
**MCOV:** 75VDC (center pin-shield), 38 VDC (shield ground)  
**Impedance:** 75 Ohms  
**Standing Wave Ratio:** 1.2:1  
**Band Pass:** 0-1.5 GHz  
**Insertion Loss:** <0.3dB @ .3 KHz - 1.1 MHz; <-3.0dB loss 3.0 - 4.



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# TVSS—Surge Protection



## DTK-1FF ★

Ready to use plug in unit for office and computer products, home electronics or other communication devices.

### Physical Specifications

**Product Description:** Single Outlet Wall Mount with Telephone Protection

Housing	High Impact Plastic
Color	Gray
Size	2.69 in. x 1.83 in. x 1.25 in.
Weight	0.25

### Electrical Specifications

<b>Class:</b>	Single Outlet Wall Mount with Telephone Protection
<b>Installation Point:</b>	Receptacle
<b>Agency Approvals:</b>	UL-1449, cUL, UL 497 A
<b>Connection Method:</b>	Plug-in
<b>Continuous Current:</b>	15A
<b>Response Time:</b>	<5 nSec
<b>MCOV:</b>	130VRMS
<b>Operating Frequency:</b>	50/60 Hz
<b>AC Protection Modes:</b>	L - N, L - G, N - G
<b>Service Voltage:</b>	110 VAC
<b>Diagnostics:</b>	Indicator Light—Surge Protection Present
<b>Max Surge Current:</b>	13,500 Amps A/C, 2,400 Amps Telephone
<b>Suppressed Voltage Rating:</b>	330V (UL's Best Rating)
<b>Max Energy Dissipation:</b>	114 Joules (A/C) 22 Joules (Telephone)



## DTK-1C (TV-VCR-FM Stereo) ★

Ready to use plug-in unit for TV, VCR or FM stereo applications

### Physical Specifications

**Product Description:** AC Power Surge Protector

Housing	Fire Retardant Plastic
Color	Ivory
Size	3.27 in. x 2.20 in. x 1.18 in.
Weight	.029

### Electrical Specifications

<b>Class:</b>	Single Outlet Surge Suppressor with Coax Protection (two Female "F" Connectors)
<b>Installation Point:</b>	Indoor at point of use
<b>Agency Approvals:</b>	UL 1449
<b>Connection Method:</b>	Plug-in
<b>Continuous Current:</b>	15A
<b>Response Time:</b>	<1 nSec
<b>MCOV:</b>	125VAC
<b>Operating Frequency:</b>	50/60 Hz
<b>AC Protection Modes:</b>	L - N, L - G, N - G
<b>Service Voltage:</b>	120 VAC
<b>Diagnostics:</b>	Light Indicating Surge Protection Present
<b>EMI/RFI Noise Filtering:</b>	40db 150 KHz ~ 100 MHz
<b>Max Surge Current:</b>	4,500 Amps
<b>Max Energy Dissipation:</b>	AC: 270 Joules
<b>Insertion Loss:</b>	Less than 0.1dB at 10 MHz



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