

Surge Protection Quick Reference Guide



NETWORKING & IP VIDEO PROTECTION

Ethernet & PoE Systems



- Supports up to 10Gb Ethernet
- 20kA/pair surge current rating
- Front-accessible rapid-replacement modules

Rapid replacement modules can be interchanged to protect Ethernet, PoE & PoE extender circuits within the same housing

Ethernet & PoE Models

DTK-WM4NETS	4 ch, wall mount
DTK-WM8NETS	8 ch, wall mount
DTK-RM12NETS	12 ch, rack mount
DTK-RM16NETS	16 ch, rack mount
DTK-RM24NETS	24 ch, rack mount

PoE Extender Models

DTK-WM4EXTS	4 ch, wall mount
DTK-WM8EXTS	8 ch, wall mount
DTK-RM12EXTS	12 ch, rack mount
DTK-RM16EXTS	16 ch, rack mount
DTK-RM24EXTS	24 ch, rack mount

Rapid-Replacement Modules

DTK-NETMS	Ethernet, PoE
DTK-EXTMS	PoE Extender

- Head end & equipment rack
 - network switches
 - PoE hubs
 - midspans
 - injectors
 - Ethernet
 - PoE devices

Custom Systems: Versa-Module 2



- Protects varied combinations of low voltage signaling, data & power circuits (5V-130V)
- Compact design with single point ground for fast, easy installation

Rapid-replacement modules sold separately

Versa Module 2 Enclosures

DTK-VM2W4	4 ch, wall mount
DTK-VM2W8	8 ch, wall mount
DTK-VM2R24	24 ch, rack mount

Rapid-Replacement Modules

DTK-VM2	RJ45 connections
DTK-VM2T	Hardwired connections

- Head end & equipment rack

Ethernet & PoE



- Designed for today's demanding network infrastructure
- Supports up to 10Gb Ethernet
- 20kA/pair surge current rating
- PoE+ & HiPoE ready for high wattage applications
- Outdoor model equipped with NEMA 4X enclosure & liquid-tight cordgrips

IP/PoE Cameras

DTK-MRJETHS	Ethernet
DTK-MRJPOES	PoE
DTK-MRJEXTS	PoE extender

IP/PoE Cameras (Outdoor)

DTK-MRJPOEX

Ethernet

DTK-110C6A	110-110 connections
DTK-110RJ6A	110-RJ connections

PoE

DTK-110C6APOE	110-110 connections
DTK-110RJ6APOE	110-RJ connections

- Wireless access points
- Outdoor Ethernet
- Outdoor PoE
- Data networks
- POS terminals
- IP cameras

IP Video



- Low impedance video/data protection with up to 10GbE data speeds

DTK-PVPIPS	IP/PoE
<i>Add'l connections for 12/24V power accessory</i>	
DTK-PVP56V	PoE
<i>Add'l connections for 56V power accessory</i>	

- IP-PoE cameras
- NVR's
- Copper/fiber composite cable

Power Over Coax



- Protects Ethernet & PoE extenders that transmit over legacy coaxial cable
- PoE+ & HiPoE ready for high wattage applications

DTK-POC

- IP cameras
- DVR's

Online Double Conversion UPS



- Invisible AC/battery transitioning
- Intuitive LCD display
- SNMP card available

DTK-UPS1000R+	1kVA
DTK-UPS1500R+	1.5kVA
DTK-UPS2000R+	2kVA

Easily converts from rack mount to tower profile

- Network servers
- Other mission-critical equipment

120VAC Rack Mount



- 12 protected outlets (6 front, 6 back)
- EMI/RFI noise filtering
- Diagnostic LED & 15' cord

DTK-RMAC12	120V, 15A
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- Head end & equipment rack

FIRE ALARM PROTECTION

APPLICATIONS

Deflector Series



- AC power plus 6-position mounting base protects ≤ 12 pairs SLC, IDC/PIV, NAC or dialer circuits
- Series connected, dry contacts & audible alarm
- 20A–50kA surge current rating
- 5V–130V low voltage protection modules (sold separately)

Mounting Base

DTK-120X12 120VAC
DTK-240X12 240VAC

Protection Modules

DTK-DF120M 120VAC, rapid-replacement
DTK-DF240M 240VAC, rapid-replacement
DTK-2MHLP Low voltage, protects 2 pairs ea

Single Channel Models

DTK-DF120S1 120VAC
DTK-DF240S1 240VAC

- Fire alarm control panels
- NAC boosters

Total Surge Solutions



- Mix/match DTK-2MHLP-B/F modules for comprehensive protection
- Protects SLC, IDV/PV, NAC, network or dialer circuits

Low voltage protection modules sold separately (next listing)

120VAC Power

DTK-TSS1 ≤ 10 pairs low voltage
DTK-TSS2 ≤ 4 pairs low voltage
DTK-TSS6 ≤ 8 pairs low voltage
DTK-TSS4D

SLC, IDV/PIV, NAC, Network or Dialer

DTK-TSS3 ≤ 4 pairs low voltage

- Addressable & conventional alarm or control panels
- NAC boosters
- Building-building

Low Voltage Modules



- Field-replaceable modules
- Protect 2 pairs of SLC, IDC/PIV, NAC or dialer circuits (5V–130V)
- Snap-track base system for easy install
- Optional multi-position hardwired base

DTK-2MHLP-B Series Shorts to ground
DTK-2MHLP-F Series Opens circuit

- Low voltage loop circuits

Parallel Devices



- Designed to meet the standards of the life safety industry
- 120V, 20A, UL 1449 type 1 SPDs

DTK-120HW 120V AC
DTK-120HWLOK 120V AC with lockout kit

- Branch panels (at breaker)

Dialer Circuits



- RJ31X connection with external grounding screw (includes patch cord)
- Point of use protection installs in series with the circuit

DTK-MRJ31XWP

- Alarm or control panels

Fire Alarm System Kit



- Protects 120V AC power & 2 dialer circuits

DTK-FPK1 DTK-120HW (1) + DTK-MRJ31XWP (2)
DTK-FPK2 DTK-120SRD (1) + DTK-MRJ31XWP (2)

- Fire alarm control panels

ACCESS CONTROL & INTRUSION

APPLICATIONS

Series Connected



- Load removal feature disconnects equipment if compromised
- EMI/RFI filtering; diagnostic LEDs
- 120VAC, 20A–50kA surge current rating

DTK-120SLR

- Gate Motors
- 120VAC single phase critical loads

Card Reader



- Protects 4 pairs power/data circuits
- Single point ground

DTK-4LVLPX 12V OSDP/Wiegand reader
DTK-4LVLPCR 12V/24V power, data & LED

- Wiegand readers
- Card readers
- OSDP readers

Telephone Entry



- Protects 4 pairs 12V/24V power, telephone line & data/release circuits
- Single point ground

DTK-4LVTEP Commercial
DTK-4LVXR Residential

- Commercial gate
- Residential gate

Electric Door Strike



- 24V protection; parallel install does not impede mag lock operation
- Sold as a pair to protect both ends of the circuit*

DTK-ESS

- Mag locks
- Electric door strikes

Ethernet & PoE



- Supports up to 10Gb Ethernet
- 20kA/pair surge current rating
- PoE+ & HiPoE ready
- IEEE PoE compliant
- CAT5e, CAT6 & CAT6A cabling infrastructure compatible

DTK-MRJPOES

- Ethernet devices
- PoE devices
- Access control

Security Control Panel Kit



- Alarm transformer & dialer circuit protection

DTK-APK1 DTK-1F (1) + DTK-MRJ31XWP (1)

- Control panel
- Dialer

AC POWER SURGE PROTECTION

ZEUS Modular Devices



- Professional-grade protection to meet new construction bid/spec standards
- High surge current rating
- Service assurance features
- Replaceable SPD module
- EMI/RFI filtering
- UL 1449 type 1 SPD

ZEUS Non-Modular Devices



- Protection for the most demanding environments
- Individually fused components for maximum performance
- Wide range of voltage configurations
- UL 1449 type 1 SPD

Single, Split & Three Phase



- Durable & cost-effective
- Parallel connections
- NEMA 4X enclosure
- Diagnostic LEDs
- UL 1449 type 1 SPD

Deflector Series



- Maximum critical load protection minimizes AC supply voltage spikes & isolates incoming surges from lightning or other sources
- Rapid-replacement modules
- Series connected, dry contacts & audible alarm
- UL 1449 type 2 SPD

DIN Rail



- Mounts to 35mm DIN rail
- Guards against transient power surges from lightning, power grid switching & inductive load switching
- Compact, modular design
- Voltage configurations 120V-690V
- 75kA/ph, rapid-replacement modules & end-of-life indicators
- UL 1449 type 1 recognized

DTK-DR Series

APPLICATIONS

M Series

D200M.....200kA/ph, 100kA/mode
D300M.....300kA/ph, 150kA/mode

MT Series (Integral Disconnect)

D200MT.....200kA/ph, 100kA/mode
D300MT.....300kA/ph, 150kA/mode

- Service entrance & branch panels

D50 Series.....50kA/ph, 25kA/mode
D100 Series.....100kA/ph, 50kA/mode
D150X Series.....150kA/ph, 50kA/mode
D200 Series.....200kA/ph, 100kA/mode

- Disconnect switches & branch panels
- Distribution panels
- Service entrances

Single Phase

DTK-120HW.....120V
DTK-120HWLOK.....120V with lockout kit
DTK-240HW.....240V

Split Phase

DTK-120/240HW.....120/240V
DTK-120/240CM+.....120/240V
DTK-240/480CM+.....240/480V

3 Phase Delta

DTK-2403CMXPLUS.....208/240V
DTK-4803CMXPLUS.....480V
DTK-6003CMXPLUS.....600V

- Equipment panels & FACP
- HVAC, pumps, motors, highway lighting
- Electric panels & control panels

Single Circuit

DTK-DF120S1.....120V, 20A single ph
DTK-DF240S1.....240V, 20A single ph

12 Circuit

DTK-DF120S12.....120V, 20A, single ph
DTK-DF240S12.....240V, 20A, single ph

- Electronic fueling equipment
- POS devices
- Lottery machines
- FACP

RESIDENTIAL PROTECTION

Whole Home



- Protects 120/240V split phase residential electrical panels
- NEMA 4X weatherproof enclosure
- Diagnostic LED
- NEC 2020, article 230.67 compliant

Circuit Breaker Mount, UL 1449 Type 2 SPD

DTK-120/240BK1.....50kA total

Hardwired Panel Mount, UL 1449 Type 1 SPD

DTK-120/240HD2.....100kA/ph
DTK-120/240HD.....50kA/ph
DTK-120/240XD.....50kA/ph

- Residential electrical panels
- HVAC
- Pool controls

UNINTERRUPTIBLE POWER SUPPLIES

Online Double Conversion



- Invisible AC/battery transitioning
- Intuitive LCD display
- SNMP card available

DTK-UPS1000R+.....1kVA
DTK-UPS1500R+.....1.5kVA
DTK-UPS2000R+.....2kVA
Easily converts form rack mount to tower profile

- Network servers
- Mission critical equipment

Line Interactive



- Embedded microprocessor
- USB connection
- Built-in boost & buck AVR

DTK-UPS600.....600VA
DTK-UPS1000.....1000VA

- POS & lottery equipment
- Home & office workstations

APPLICATIONS

COMMUNICATIONS

Communication Circuits



- Protects against today's demanding network infrastructure
- Supports up to 10Gb Ethernet

Ethernet

DTK-110C6A..... 110-110 connections
DTK-110RJ6A..... 110-RJ connections

PoE

DTK-110C6APOE..... 110-110 connections
DTK-110RJ6APOE..... 110-RJ connections

- Data Networks
- POS Terminals
- IP Cameras

Custom Systems: Versa-Module 2



- Protects varied combinations of low voltage signaling, data & power circuits (5V-130V)
 - Compact design with single point ground for fast, easy installation
- Rapid-replacement modules sold separately*

Versa Module 2 Enclosures

DTK-VM2W4..... 4 ch, wall mount
DTK-VM2W8..... 8 ch, wall mount
DTK-VM2R24..... 24 ch, rack mount

- Head end & equipment rack

Rapid-Replacement Modules

DTK-VM2.....RJ45 connections
DTK-VM2T.....Hardwired connections

Low Voltage DIN Rail



- SAD & GDT hybrid design
- 35mm mounting configuration with rapid-replacement modules
- Protects 2 circuit pairs (5V-130V)

DTK-DRB Series.....Shorts to ground
DTK-DRF Series.....Opens circuit

- Industrial control equipment
- UL508 control panels

HDMI



- Protects against electrostatic discharges (ESD) & power surges
- HDMI2.0a & HDCP2.2 compatible
- Supports up to 4k UHD

DTK-HDMI1.....Single channel
DTK-HDMI2.....Dual channel
Includes mounting bracket

- HDTV
- DVD players
- Home theater systems

Low Voltage Modules



- Field-replaceable modules
- Protect 2 pairs of SLC, IDC/PIV, NAC or dialer circuits (5V-130V)
- Snap-track base system for easy install
- Optional multi-position hardwired base

DTK-2MHLP-B Series.....Shorts to ground
DTK-2MHLP-F Series.....Opens circuit

- Data & signaling circuits
- 70V speakers
- 4-20mA current loops
- Telco

Low Voltage



- Compact, hardwired design
- Protects 2 or 4 pairs (5V-30V)
- Screw terminal connections

DTK-2LVLP Series.....2 pairs
DTK-4LVLP Series.....4 pairs

- Data loops
- Initiating
- Notifying circuits

66 Block Snap On Devices



- Quick connect modules
- No bridge clips required

DTK-S Series.....Digital (14V, 30V, 50V & 130V)
DTK-SL Series.....Analog (30V & 130V)
DTK-SIGB.....Universal
Single point ground for ≤ 25 S/SL pairs

- 66 Block
- Digital & analog station lines

PLUG-IN PROTECTION

Line Conditioner



- UL1283 noise filtering
- Diagnostic LED & audible alarm
- UL 1449 type 3 SPD

DTK-LC2.....120VAC, 15A

- Office equipment
- Copy machines

Plug-In (8 Outlets)



- Protects AC power & telco/fax lines
- Accepts ≤6 simultaneous transformers
- UL 1449 type 3 SPD

DTK-8FF.....120VAC, 15A

- Point of use

Load Sensing Power Strip (7 Outlet)



- Illuminating load status indicators
- UL 1449 type 3 SPD
- 2-in-1 power ON/OFF rocker switch

DTK-7VS.....120VAC, 15A

- Point of use

Plug-In (12 Outlet)



- 12 protected outlets (6 front, 6 back)
- EMI/RFI noise filtering
- Diagnostic LED & 15' cord

DTK-RMAC12.....120VAC, 15A

- Head end & equipment rack

Plug-In (1 Outlet)



- Protects 120VAC point of use devices
- Diagnostic LED
- UL 1449 type 3 SPD

DTK-1F.....120VAC, 15A

- Point of use

APPLICATIONS