

# DTK-TSS1

Total Surge Solution for Fire Alarm Systems



## Product Features

- 120VAC power surge protection with dry contacts for remote monitoring of surge protection status
- Hard-wired base for 2MHLP/2MHTP modules, protects up to 10 SLC, NAC, IDC, PIV and dialer circuits pairs (must be ordered separately)
- Space for expansion, protect up to 8 additional data/signal pairs by adding a DTK-4MB base
- Complete protection, simple installation, high quality, and field-replaceable modules make the TSS1 a perfect fit for alarm systems or control

## Applications

- Fire Alarm Control Panels
- 120VAC Single phase critical loads and NAC, IDC, PIV and SLC circuits
- UL listed control panels where UL Recognized Components is required

Example to protect 120V system power, eight 24V data/signal pairs, and two telco pairs:

**1 x DTK-TSS1** (DTK-120SRD & DTK-5MB in steel enclosure)

**4 x DTK-2MHLP24B** (protect 8-data/signal pairs)

**1 x DTK-2MHTP** (protect 2-telco pairs)

**DITEK's Total Surge Solution (TSS)** is a range of products that provide total surge protection for addressable and conventional alarm systems.

The DTK-TSS1 protects 120V system power and up to ten pairs of SLC, IDC/PIV, NAC or dialer circuits. The TSS1 is equipped with DTK-120SRD 120VAC surge protection and a prewired DTK-5MB mounting base. Adding DTK-2MHLP/2MHTP modules for data/signal and dialer circuit protection provides a complete solution for your fire alarm system.

## Technical Specifications

Equipped with:

<b>DTK-120SRD</b>	120VAC Surge Protector See DTK-120SRD Datasheet
<b>DTK-5MB</b>	Multi-base system, 10 circuit pairs See DTK-2MHLP Datasheet
<b>100-640</b>	Ground Bar Kit for Grounding See 100-640 Datasheet

## Mechanical Characteristics

<b>Enclosure:</b>	NEMA 1, 12 Steel Enclosure (IP20) with latching cover UL Listed Industrial Control Panel Enclosure
<b>Operating Temperature:</b>	40°F - 175°F (-40°C - 80°C)
<b>Maximum Humidity:</b>	95% non-condensing
<b>Dimensions:</b>	12"L x 4"W x 12"H (305mm x 102mm x 305mm)
<b>Weight:</b>	11 lb. (5kg)

## Quality, Standards & Approval

<b>Agency Approvals:</b>	UL1449, UL1283 for DTK-120SRD UL497B for DTK-2MHLP UL497A for DTK-2MHTP
<b>Standards Compliance:</b>	IEEE C62.41.1 -2, IEEE C62.45
<b>Warranty:</b>	Ten Year Limited Warranty

Every precaution has been taken to ensure that this literature is accurate and complete. DITEK Corporation assumes no responsibility and disclaims all liability for damages resulting from the use of this information or for any errors or omissions.



# DTK-TSS2

Total Surge Solution for Fire Alarm Systems



## Product Features

- AC power surge protection with dry contacts for remote monitoring of surge protection status
- Hard-wired base for 2MHLP/2MHTP modules, protects up to 4 SLC, NAC, IDC, PIV and dialer circuits pairs (must be ordered separately)
- Complete protection, simple installation, high quality, and field-replaceable modules make the TSS2 a perfect fit for alarm systems or control panels.

## Applications

- Fire Alarm Panels
- Control Panels
- UL listed control panels where a UL Recognized Component is required

Example to protect 120V system power, two 24V data/signal pairs, two 12V data/signal pairs and two telco pairs:

- 1 x DTK-TSS2** (DTK-120SRD & DTK-2MB in NEMA enclosure)
- 1 x DTK-2MHLP24B** (protect 2-data/signal pairs 24V)
- 1 x DTK-2MHLP12B** (protect 2-data/signal pairs 12V)
- 1 x DTK-2MHTP** (protect 2-telco pairs)

**DITEK's Total Surge Solution (TSS)** is a range of products that provide total surge protection for addressable and conventional alarm systems.

The DTK-TSS2 protects 120V system power and up to four pairs of SLC, IDC/PIV, NAC or dialer circuits. The TSS2 is equipped with DTK-120SRD 120VAC surge protection and a prewired DTK-2MB mounting base. Adding DTK-2MHLP/2MHTP modules for data/signal and dialer circuit protection provides a complete solution for your fire alarm system.

## Technical Specifications

Equipped with:

<b>DTK-120SRD</b>	120VAC Surge Protector See DTK-120SRD Datasheet
<b>DTK-2MB</b>	Multi-base system, 4 circuit pairs See DTK-2MHLP Datasheet
<b>100-640</b>	Ground Bar Kit for Grounding See 100-640 Datasheet

## Mechanical Characteristics

<b>Enclosure:</b>	Polycarbonate NEMA 4X (IP66) UL Listed Industrial Control Panel Enclosure UL94 Flammability Rating
<b>Operating Temperature:</b>	40°F - 175°F (-40°C - 80°C)
<b>Maximum Humidity:</b>	95% non-condensing
<b>Dimensions:</b>	7"HLx 4"W x 10"H (178mm x 102mm x 255mm)
<b>Weight:</b>	5 lb. (2.5kg)

## Quality, Standards & Approval

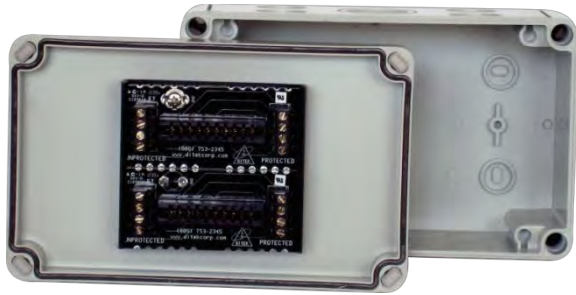
<b>Agency Approvals:</b>	UL1449, UL1283 for DTK-120SRD UL497B for DTK-2MHLP UL497A for DTK-2MHTP
<b>Standards Compliance:</b>	IEEE C62.41.1 -2, IEEE C62.45
<b>Warranty:</b>	Ten Year Limited Warranty

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# DTK-TSS3

Complete Fire Panel Protection for Signaling and Notification



**DITEK's Total Surge Solution (TSS)** is a range of products that provide total surge protection for addressable and conventional alarm systems.

The DTK-TSS3 is a perfect fit for building to building notifier and communication runs. It comes with a prewired four-pair mounting base. Adding DTK-2MHL/2MHTP modules for data/signal and dialer circuit protection provides a complete solution for your fire alarm system.

## Product Features

- Hard-wired base for 2MHL/2MHTP modules, protects up to 4 SLC, NAC, IDC, PIV and dialer circuits pairs (modules sold separately)
- Complete protection, simple installation, high quality, and field-replaceable modules make the TSS3 a perfect fit for alarm systems or control panels.

## Applications

- Fire Alarm Panels
- Control Panels
- UL Listed Control Panels where a UL Recognized Component is Required

Example to protect two 24V data/signal pairs and two telco pairs:

- 1 x DTK-TSS3** (DTK-2MB in NEMA enclosure)
- 1 x DTK-2MHL/24B** (protect 2-data/signal pairs 24V)
- 1 x DTK-2MHTP** (protect 2-telco pairs)

## Technical Specifications

Equipped with:

**DTK-2MB**

Multi-base system, 4 circuit pairs  
See DTK-2MHL/24B Datasheet for detailed information

## Mechanical Characteristics

<b>Enclosure:</b>	Polycarbonate NEMA 4X (IP66) UL Listed Industrial Control Panel Enclosure UL94 Flammability Rating
<b>Operating Temperature:</b>	40°F - 175°F (-40°C - 80°C)
<b>Maximum Humidity:</b>	95% non-condensing
<b>Dimensions:</b>	7"L x 4"W x 4"H (178mm x 102mm x 102mm)
<b>Weight:</b>	4 lb. (1.8kg)

## Quality, Standards & Approval

<b>Agency Approvals:</b>	UL497B for DTK-2MHL/24B UL497A for DTK-2MHTP
<b>Standards Compliance:</b>	IEEE C62.41.1 -2, IEEE C62.45
<b>Warranty:</b>	Ten Year Limited Warranty

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# DTK-TSS4D

## Series Connected Surge Protector



### Product Features

- Series design for fast response and best protection
- Multi-stage hybrid circuit design
- UL1283 EMI/RFI filtering
- LED indicates protection status
- Form C Dry Contact circuit
- UL Listed NEMA 4X enclosure

### Applications

- Fire Alarm Panels
- Control Panels
- 120VAC Single Phase Critical Loads
- Applications where a UL Listed SPD is required

**DITEK's Total Surge Solution (TSS)** is a range of products that provide total surge protection for addressable and conventional alarm systems.

The DTK-TSS4 protects dedicated 120VAC power circuits that feed control panels and other critical equipment. It includes dry contacts for remote notification of surge protection status and EMI/RFI filtering to ensure clean power for connected equipment.

### Technical Specifications

Service Voltage:	120VAC
MCOV:	150VAC
Protection Modes:	All modes (L-G, L-N, N-G)
Voltage Protection Rating:	600VAC
Surge Current Rating:	54,000 Amps
Max. Continuous Current:	20 Amps
SCCR:	10kA
Nominal Discharge Current Rating:	3kA
EMI/RFI Filtering Attenuation:	Up to 35dB, 100kHz -100MHz

### Mechanical Characteristics

Connection Method:	Hardwired, series configuration
Housing:	Polycarbonate NEMA 4X (IP66) UL94 Flammability Rating
Operating Temperature:	40°F - 175°F (-40°C - 80°C)
Maximum Humidity:	95% non-condensing
Dimensions:	9.5"L x 6.25"W x 3.63"H (241mm x 159mm x 92mm)
Weight:	1.8lb (0.45kg)

### Quality, Standards & Approval

Agency Approvals:	UL1449, cUL, UL1283
SPD Type:	Type 2 SPD
Standards Compliance:	IEEE C62.41.1 -2, IEEE C62.45
Warranty:	Ten Year Limited Warranty

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