

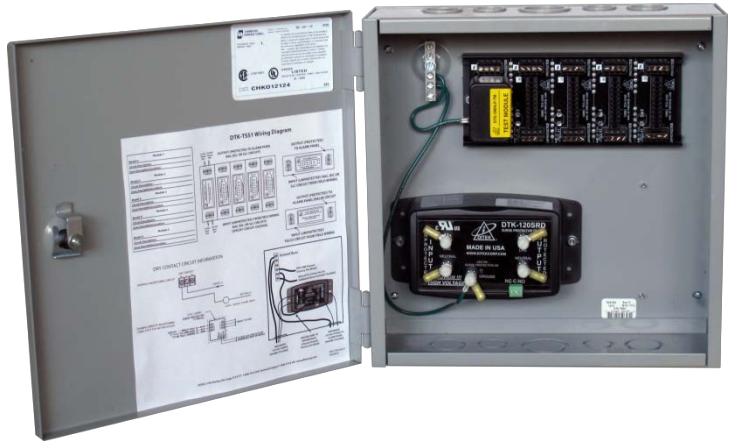


# DTK-TSS1 Series Total Surge Solution

*Complete Fire Panel Protection for AC Power and Loop Circuits*  
*General Product Specifications*

DITEK's Total Surge Solution (TSS) is a range of products that provide total surge protection for addressable and conventional alarm systems. The TSS1 protects 120V AC power and up to ten pairs of SLC, IDC/PIV, NAC and dialer circuits.

The TSS1 is equipped with DTK-120SRD 120VAC surge protection and a prewired DTK-5MB mounting base for loop protection. Adding DTK-2MHLP modules or 2MHTP telco modules provides a custom solution for your system. Complete protection, simple installation, high quality, and field-replaceable modules make the TSS1 a perfect fit for addressable alarm systems or control panels. **For alarm panels with network connections, use DTK-TSS1IP.**



## DTK-TSS1

### Product Features

- 20A current rated, 54kA surge rated AC protection
- 20kA surge rated low voltage suppression
- Dry contacts for remote monitoring of surge protection status
- Field replaceable surge modules for NAC, IDC/PIV and SLC circuits
- Ten Year Limited Warranty

### Specifications

- NEMA TYPE 1 steel enclosure with latching cover
- UL Listed - Industrial Control Panel Enclosure
- Weight:  $\approx$  11 lb. (5 kg)
- Dimensions: 12" x 12" x 4" (305mm x 305mm x 102mm)
- Operating temperature: -40° F to 175° F (-40°C to 80°C)

### Options

- DTK-TSS1IP same as TSS1 with IP network protector, DTK-MRJ45C5E
- DTK-TSS2 120V AC and four-line low voltage transient surge protection
- DTK-TSS3 four-line low voltage protection for building-to-building runs
- Voice/Data protection modules: DTK-2MHLP (select required voltage), DTK-2MHTP (Telco lines)

### DTK-120SRD AC Protection Features

- Agency Approvals: UL1449 3rd Edition, cUL, UL1283 EMI/RFI filtering
- Protector Type: Type 4 SPD, for Type 2 Application
- Nominal Discharge Current Rating (In): 3kA
- SCCR: 10kA
- Operating Voltage: 120VAC
- MCOV: 150VAC
- Peak Surge Current: 54,000 Amps
- LED function indicators
- Form C dry contact circuit

### Low Voltage Protection Features

- Hard-wire base for replaceable suppression modules
- DTK-2MHLP modules are UL497B listed
- DTK-2MHTP telco modules are UL497A listed
- 2MHLP low voltage modules protect two data/signal pairs each. The TSS1, with 2MHLP modules, can protect power and up to ten data/signal pairs.
- Available voltages: 5VDC – 130VDC
- Maximum continuous current: 5A per module
- DTK-2MHLPTM Test/Bridging module is included

**NOTE: See DTK-2MHLP/DTK-2MHTP/DTK-120SRD/DTK-MRJ45C5E Datasheets for detailed specifications on SLC, IDC/PIV, NAC, Dialer & AC Power Protection**

