



## DTK-TSS2

## 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 TSS2 covers 120V system power and up to four pairs of SLC, IDC, NAC or dialer circuits.

The TSS2 is equipped with DTK-120S20A 120VAC surge protection and a prewired DTK-2MB 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 TSS2 a perfect fit for conventional alarm systems or control panels.

### DTK-TSS2

#### Product Features

- Surge protection for AC Power, NAC, IDC, and SLC
- 20A current rated, 39kA surge rated AC suppression
- 20kA surge rated low voltage suppression
- Field replaceable surge modules for NAC, IDC, and SLC circuits
- 2MHLP low voltage modules protect two data/signal pairs each. The TSS2, with two 2MHLP modules installed, protects power and up to 4 data/signal pairs
- Ten Year Limited warranty

#### Specifications

- NEMA 4X enclosure for installation in direct spray or corrosive environments
- Weight:  $\approx$  5 lb. (2.5 kg)
- Dimensions: 10" x 7" x 4" (255 x 178 x 102mm)
- Operating temperature: -40° F to 175° F (-40°C to 80°C)

#### Options

- Replacement/add-on modules: DTK-2MHLP and DTK-2MHTP (Telco lines)
- Test/Bridging Module: DTK-2MHLPTM
- DTK-TSS3 (protects building to building signal loops)



*DTK-TSS2 shown with 2MHLP  
Voice/ Data Protection Modules  
(not included)*

#### AC Protection Features

- Modes Protected: All modes (L-G, L-N, N-G)
- DTK-120S20A 120VAC protection listed by **Wyle Labs**, compliant to UL 1449, 2nd Edition 2007
- Response time: <1ns
- Operating Voltage: 110VAC – 120VAC
- MCOV: 130V
- Suppressed Voltage Rating: 500V
- Operating frequency: 0Hz – 400Hz (50/60Hz normal)
- Connection method: compression screw terminals
- LED function indicators
- EMI/RFI filtering

#### 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 TSS2, with 2MHLP modules, can protect power and up to four data/signal pairs.
- Available voltages: 5VDC – 130VDC
- Maximum continuous current: 5A per module

**NOTE: See DTK-2MHLP/DTK-2MHTP/DTK-120S20A Datasheets for detailed specifications on SLC, IDC, NAC, Dialer & Power Protection**

