

**Description**

WTH-SG/RJ45 Series surge protective devices are applied to surge protection for data communication systems.  
 WTH-SG/RJ45-KH-C/24 is connected in series in CAT6 network cables, compatible with 10/100/1000/10000 (10G) Base-T Ethernet systems, protecting the equipment which are connected to the network (e.g. computers, routers, PoE devices, etc.) against damages by over-voltage surge.  
 (Standards compliance: IEC61643-21, UL497B, IEEE 802.3af PoE/802.3 at PoE Plus)

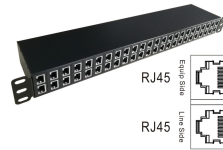
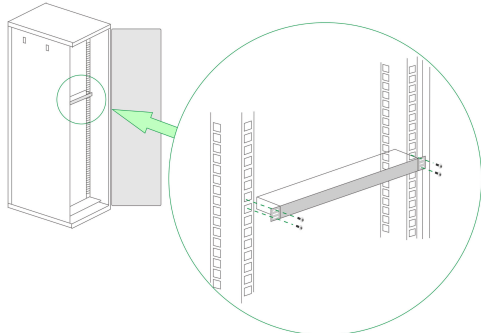
**Technical Data**

Model	WTH-SG/RJ45-KH-C/24
Ordering code	US121181
Nominal operating voltage (Un)	2.8V(Ethernet)/48V(PoE)
Max. continuous operating voltage (UC)	3V(Ethernet)/60V(PoE)
Nominal Discharge Current (In @8/20µs)	3kA (line to line)
Max. Discharge Current (Imax @8/20µs)	20kA (line to GND/PE)
Voltage protection level (Up @line-line)	50V @ 3kV (1.2/50)
Voltage protection level (Up @line-GND/PE)	700/800V @ 3kV (1.2/50)
Max Line Current	600mA (PoE)
Data Rate	100/1000Mbps
Bandwidth (3db) per pair	>250MHz
Insertion Loss	<0.5dB @100MHz
Pairs Protected	1-2,3-6,4-5,7-8
Protective Element	GDT, TVS
Voltage Breakdown Range, Vdc @ 100 V/s	2.4-188 (L-L) / 72-108(L-G)
Impulse Voltage Range, Vdc @ 100 V/µs	<1000
Response Time (tA)	<100ns (line-GND/PE), <1ns (line-line)
Connection mode	RJ45 (24 Port)
Temperature Range	- 40° to 176 °F (-40° to 80°C)
Relative Humidity	0% to 95% noncondensing
Maximum Operating Altitude	10,000 feet (3000m)
Surge Life at 0.5kA (8/20µs)	>2000 events
Material of Construction	Black oxidized aluminum alloy
Housing Material	19-inch Rack
Net Weight Per Unit	2.2Lb (1000g)
Package Dimension (WxDxH)	19" x 1.8" x 3.6" (482mm x 45mm x 90mm)

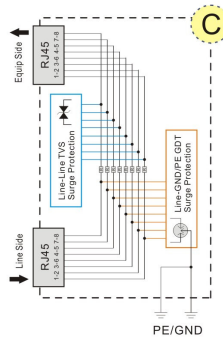
**Installation Instruction**

The surge protective devices shall be employed in a Listed enclosure or closet that is only accessible to technicians or service personnels.

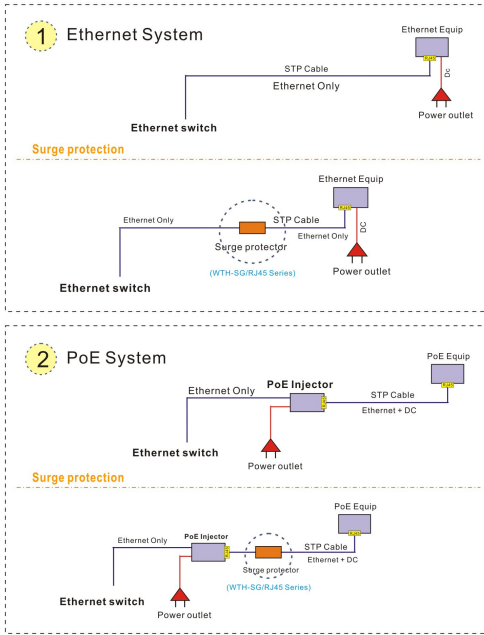
**19" Rack Mounting Installation**



**Connection Diagram**



Application



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