

PT-PR01G-10 PoE Surge Protector

User Manual



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Overview

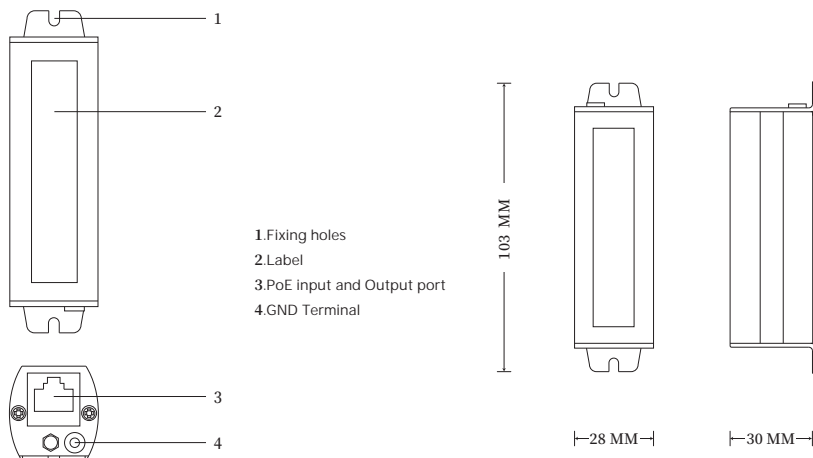
PT-PR01G-10 is a single-port Ethernet surge protector. Enclosed in an Aluminum Alloy shell, with a silver color exterior, complemented by an anodized aluminum surface. Enhanced RJ45 socket exhibits minimal signal attenuation. High-quality Gas discharge tube(GDT). Withstand extreme environmental conditions within a temperature range of -40 to 85 degrees Celsius. Max Discharge Current: 10KA (8/20us, 1.25KA per line). Supports power of 120W, 60Vdc(max) Ethernet equipment.

PT-PR01G-10 can not only work with IEEE802.3af/at/bt/PoE++ standard devices, but also supports non-standard Ethernet equipment, that well protects your devices against surge damage.

The common mode surge voltage is 20KV(10/700us) and the differential mode surge voltage is 1.5KV(10/700us).

It supports not only 10/100/1000Mbps of data speed, but also 2.5GbE/5GbE/10GbE NBase-T.

Appearance



1 Product Diagram

2 Dimensions

Declaration

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Please follow WEEE (Waste Electrical and Electronic Equipment) disposal instructions for old electronic products. Please do not dispose of the old product in your general household waste bin.



The symbol indicates that the product should not be discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.

Specification

Model	PT-PR01G-10
Operating Voltage	60Vdc Max
Max Discharge Current	10KA (8/20us , 1.25KA per line)
PoE Surge protection	Common Mode Protection Level(10/700us): 20KV
	Differential Mode Protection Level(10/700us): 1.5KV
Maximum Operating Current	1A for 2 pairs, 2A for 4 pairs
Maximum Operating Power	120W Max
Operating Temp.	-40°C to 85°C
Network Protocol	IEEE802.3i/IEEE802.3u/IEEE802.3ab
Data Speed	10/100/1000Mbps/2.5G/5G/10G
Regulatory Compliance	CE
Dimensions & NW	103mm X 28mm X 30mm 71.5g

Troubleshooting

Failure Phenomena	Cause Analysis	Solutions
PD not working	Not plugged in the PoE input	plug into the cable to the input port
	Poor network cable contact or network cable failure.	Re-plug the network cable or replace the network cable.
	PD Damage	PD replacement
Data Transmission Abnormality	Check if the total length of the network connection cable exceeds 100 meters.	Shorten the connection distance, or add an extender/ repeater.
	Signal source malfunction	Check if the switch working properly.
	Ethernet data transmission failure	Check if the cable comply with the EIA/TIA568B or 568A.

Caution

1. Please read the instructions carefully and follow the standard operating procedures before using.
2. Please place it in a well-ventilated and dry area, and it is for indoor use only.
3. Connect a CAT5/5e cable with the RJ45 connector into either RJ45 socket. On the other end of the CAT5/5e cable, connect to your PoE Device (such as an IP Camera, etc.). Connect the SPD closer to the protected device.
5. The total Ethernet cable length can not exceed 100 meters. Each SPD(surge protector device) can only protect one network equipment.
6. Do not place heavy objects on top of this injector.
7. Grounding is required when using.
8. It is recommended to place the device in close proximity to the protected equipment with a distance of 50cm. Vertical installation is also recommended with a tilt angle not exceeding 50°.
9. Please install the device on a wall or metal back panel. Do not use a wooden back panel to prevent the risk of fire.
10. Cat6 or above UTP/STP cables for 2.5/5/10G Ethernet.