

# Single Port PoE Surge Protector

# **Product Overview**

PT-PR01GB is single-port PoE surge protector, which has 1 input port and 1 output port. It supports 8 lines network signals and provides surge protection for PoE wires. The maximum common mode surge voltage is 10KV(10/700us) and differential mode surge voltage is 6KV(10/700us). It supports 10/100/1000Mbps of date speed. It also supports PoE wires with IEEE802.3af/at/PoE++ standard and protects your device against surge damage.



PT-PR01GB is designed for indoor use with Aluminium alloy shell, which works with voltage of 44-57Vdc and operates under -40  $^\circ$  to 65  $^\circ$ . It is connected to network over Cat-5e/Cat6 cables with RJ45 connector conveniently and tightly.

It can be easily installed with 2 mounting holes.



# **Product Profile**



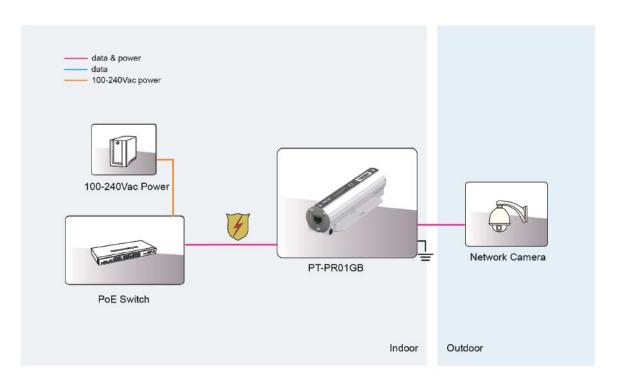
 Surge Protector Input Port Connect to Protected Equipment
Earth



3.4. Mounting Hole

5. Surge Protector Output Port

## **Product Working Diagram**



# Specification

#### Standard

- IEEE802.3 10Base-T Ethernet
- IEEE802.3u 100Base-Tx Fast Ethernet
- IEEE802.3ab 1000Base-T Gigabit Ethernet
- Support PoE wire with IEEE802.3af/at standards
- Support 60W PoE++ standards
- RoHS Compliance
- WEEE Compliance

# Input & Output

- Operating Voltage :44-57Vdc, (Max 60Vdc)
- Maximum Operating DC Current :1A for 2 pairs, 2A for 4 pairs,
  - maximum 100W
- Power Pins: 4/5(+), 7/8(-) and 3/6(+),1/2(-)
- Data Speed: 10/100/1000Mbps

## **Working Environment**

- Operating Temperature: -40 °C to 65 °C
- Operating Humidity: 20% to 80%, non-condensation
- Storage Temperature: -40 °C to 85 °C
- Storage Humidity: 10% to 90%, non-condensation
- Operating Altitude: up to 5000meters

# PoE Surge Protection

- Max Discharge Current: 20KA(8/20us,2.5KA per line)
- Protected Line: 1,2,3,4,5,6,7,8
- Common Mode Protection Level(10/700us): 10KV
- Differential Mode Protection Level(10/700us): 6KV
- Clamping Voltage(Line to GND): 300V
- Clamping Voltage(Line to Line): 10V
- Insertion Loss @10MHz/100MHz: -1db
- Return Loss @10MHz/100MHz: -20db
- Response Time: 5ns

## **Mechanical Characteristics**

- Case: Aluminium alloy
- Color: White
- Mounting: Wall-mounted
- IP Rated: IP40
- Size: 156mm X 53mm X 38mm
- Weight: 240g

# Order Info. PT-PR01GB

1 Port PoE Surge Protector/44-57Vdc/1000Mbps/10KV Surge Protection/Indoor use

#### Packing

PT-PR01GB Ground lug Wire: 16AWG Manual x 1



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## Safety Approvals

- CE

## EMI

- FCC CFR47 Part 15, EN55024, EN55032

# EMS

- IEC61000-4-2(ESD) ± 6kV(contact), ±8kV(air)
- IEC61000-4-3(RS) 10V/m(80MHz~2GHz)
- IEC61000-4-4(EFT) Power Port: ±2kV; Data Port:±1kV
- IEC61000-4-5(Surge) Power Port:±1kV/DM, ±2kV/CM
- IEC61000-4-6(CS) 10V(150kHz~80MHz)

#### Immunity

- IEC60068-2-6(Vibration)
- IEC60068-2-27(Impact)
- IEC60068-2-32(Free Fall)

