



**PT-PR01GB**

## 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 data 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°C to 65°C. 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

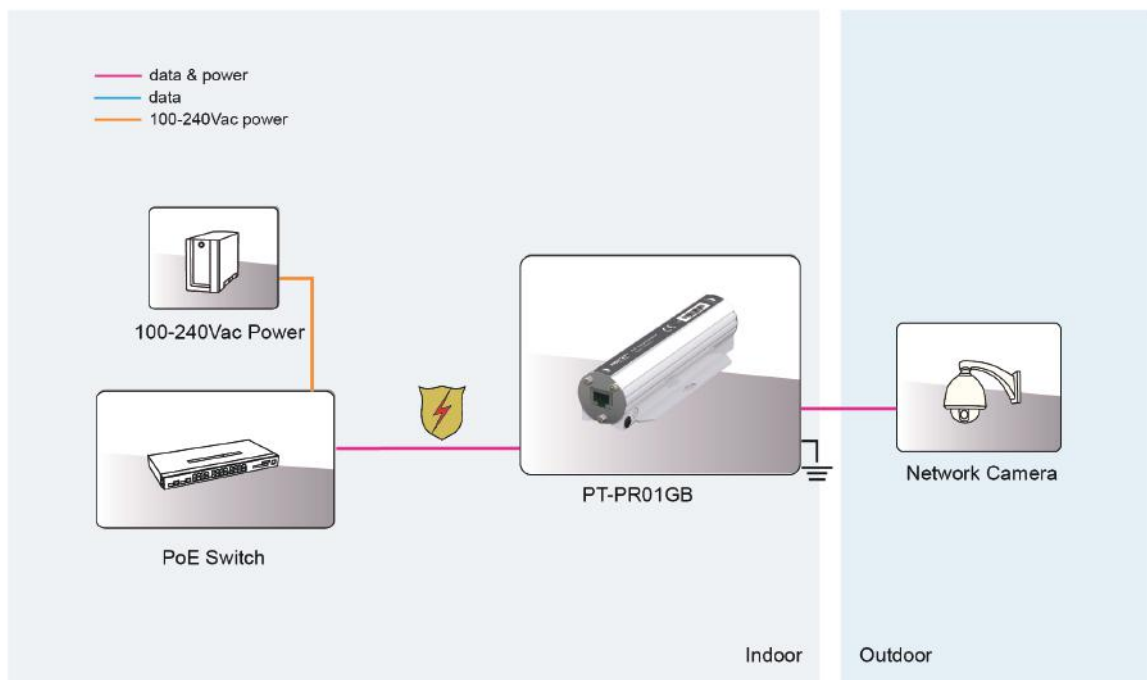


1. Surge Protector Input Port  
Connect to Protected Equipment
2. Earth



- 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℃ to 65℃
- Operating Humidity: 20% to 80%, non-condensation
- Storage Temperature: -40℃ to 85℃
- 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

### 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)

