PT-PR01G-10 10G PoE Surge Protector

Quick Installation Guide

Declaration

This document belongs to PROCET company. It is not allowed to reproduce and modify without the original author's permission. It is PROCET's policy to improve its products as new technology, components, software, and firmware at any time. PROCET, therefore, reserves the right to change specifications without prior notice. 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 notbe discarded as unsorted waste but must be sent to separate collection facilities for recovery and recycling.

Overview

The installation Guide for PT-PR01G-10 and mainly introduces the hardware specification, installation methods, and precautions of the installation. There may be differences in the appearance and configuration from other models. All product images in this manual are for illustration purposes only and may differ from the actual product.

This manual includes the following chapters:

1. Product Introduction. Including the basic functions and specification of PT-PR01G-10, as well as the product appearance and applications introduction.
2. Installation Introduction. Introducing the preparation work and precautions before installing the product.
3. Product Installation.

For whom

Network Engineers
Network Administrators
Field Technicians

Table of Contents

1. Introduction

1.1 Introduction

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.
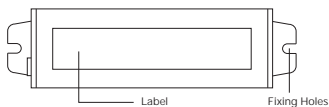
PT-PR01G-10 can not only work with IEEE802.3af/at/bt/PoE++ standard devices, but also supports non-standard Ethernet equipment, that well protects your devices against surge damage. And it can support 10/100/1000Mbps, 2.5/5/10Gbps data rate.

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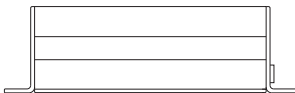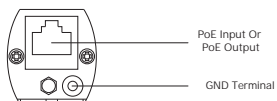
1.2 Appearance

- Upper View

1-1   Upper View

● Side View

1-2 Side View

● Front View

PoE Input Or
PoE Output

GND Terminal

1-3 Front View

1.3 Specification

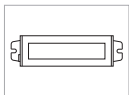| Items	Description
Input Voltage	60Vdc (Max)
Max Discharge Current	10KA(8/20us,1.25KA per line)
Maximum Operating Current	1A for 2 pairs, 2A for 4 pairs
Maximum Operating Power	120W
PoE Surge Protection	Protected Line: 1,2,3,4,5,6,7,8
	Common Mode Protection Level(10/700us): 10KV
	Differential Mode Protection Level(10/700us): 1.5KV
Data Speed	10/100/1000Mbps, 2.5/5/10Gbps
Operating Temp.	-40℃ to 85℃
Operating Humidity	20%-80%, non-condensation
Operating Altitude	Up to 5000 meters
Storge Temp.	-40℃ to 85℃
Storge Humidity	10%-90%, non-condensation
Regulatory Compliance	CE
IP Rated	IP40
Dimensions & NW	103mm X 28mm X 30mm（71.5g)

2. Installation

2.1 Packing Contents

Open the box of the PT-PR01G-10 and carefully
unpack it, the box should contain the following items:

PT-PR01G	Operating Manual	Ground lug Wire& M6 screw

2.2 Installation Toolkits

These tools may be needed during equipment installation, and should be
prepared by yourself: level ruler, marking pen, craft knife, wire stripper,
network pliers, impact drill,different matching drilbits, rubber hammer,
cross screwdriver, wrench, ladder, etc.

2.3 Inspection

Connect the PT-PR01G-10 with the protected device, and check if the
terminal device work normally.

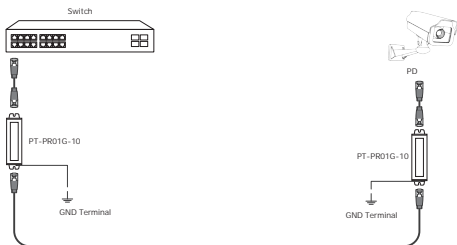**Cautions**
This device protects Ethernet Equipment with RJ45 port
against surge lightning damage.

Switch

PT-PR01G-10

GND Terminal

PD

PT-PR01G-10

GND Terminal

2-1   Device Connection

⚠️ **Caution**

- We recommend to use Cat5 or higher UTP/STP cables for 100Base-TX Ethernet
- We recommend to use Cat5e or above UTP/STP cables for 1000Base-T Ethernet.
- We recommend to use Cat6 or above UTP/STP cables for 2.5/5/10Gbps Ethernet.
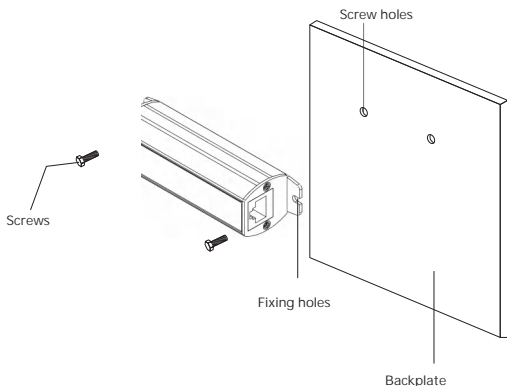
---

3. Installation

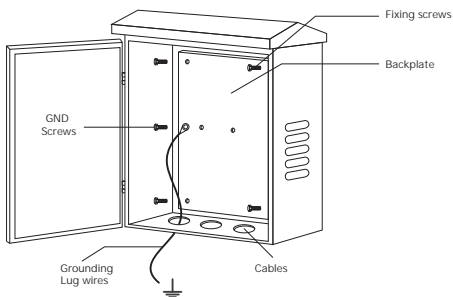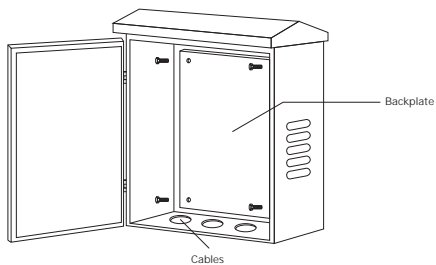This product is safe to use wall-mounted installation.

3.1 Wall mounting

If it is placed in an outdoor environment, please install the device in a waterproof case with a height of 45cm if possible.

3.1.1 Fix the product with screws and tighten them into the screw holes.

Screw holes

Screws

Fixing holes

Backplate

3-1   Wall mounting installation

Backplate

Cables

Fixing screws

Backplate

GND
Screws

Grounding
Lug wires

Cables

3-2   Installation in waterproof case

3.2 Inspection

Inspect the installed equipment before putting it into operation
- · Make sure the PD connected can work normal.
- · Make sure the Ethernet cable connection is correct.

Caution
Waterproof Ethernet cables should be with a
protective sheath. CAT6 cables are recommended.

Qualification Card

PASS

PROCET ®
PoE System