PT-PRO1G-DIN Rail Industrial PoE Surge Protector

Quick Installation Guide

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PROCET ®
PoE System

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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.

Overview

The installation Guide for PT-PR01G-DIN 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-DIN, 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
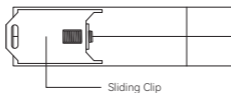
1. Introduction

1.1 Introduction

PT-PRO1G-DIN is a single-port industrial PoE surge protector designed for exterior complex backhaul and networking applications with an IP 40 rated Zinc alloy shell. It supports 8 lines network signals and provides surge protection for PoE wires for 10KV surge protection. Peak Surge Current is up to 10KA. It supports 10/100/1000Mbps of data rates. Ideal for 120W (max) PoE wires and well protects your devices against surge damage. PT-PRO1G-DIN operates from -40   to +85   and works with voltage of 60Vdc (max). Either port can be PoE in or PoE out.

It is connected to network over Cat5e/Cat6 cables with RJ45 connector conveniently and tightly. This model equipped standard DIN rail mounting bracket, which can easily jam into the guide rail. The DIN rail as a ground wire to transmit the current to the earth.
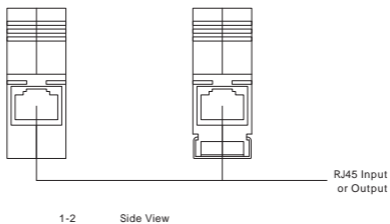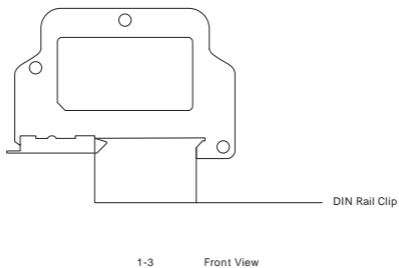
1.2 Appearance

- Upper View
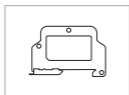

Sliding Clip

1-1   Upper View

• Side View

RJ45 Input
or Output

1-2   Side View

• Front View

DIN Rail Clip

1-3   Front View

1.3 Specification

Items	Description	
Working Voltage	60Vdc (Max)	
Max Operating DC Current	1A for 2 pairs, 2A for 4 pairs	
Max Operating Power	120W	
PoE Surge Protection	Common Mode Protection Level(10/700us):10KV	
	Differential Mode Protection Level(10/700us): 1.5KV	
Data Speed	10/100/1000Mbps	
PoE Standard	IEEE802.3 af/at/bt & PoE ++	
Operating Temp.	-40 to 85	
Operating Humidity	20%-80% non-condensation	
Operating Altitude	Up to 5000 meters	
Storage Temp.	-40 to 85	
Storage Humidity	10%-90% non-condensation	
Safety Approvals	CE	
IP Rated	IP40	
Dimensions&NW	77.2mm X 45mm X 19mm 115g	
Regulatory Compliance	RoHS/ WEEE	
Immunity	IEC60068-2-6 (Vibration)	
	IEC60068-2-27 (Impact)	
	IEC60068-2-32 (Free Fall)	

2. Installation Preparation

2.1 Package Contents

Open the box of the PT-PRO1G-DIN and carefully unpack it,
the box should contain the following items:
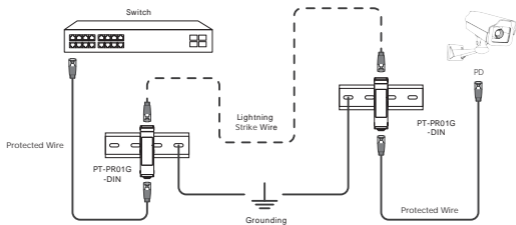

PT-PRO1G-DIN

Operating Manual

2.2 Installation ToolkIt

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-PRO1G-DIN with the protected device, and check if the
terminal device work normally.

2-1 Device Connection

⚠ **Caution**

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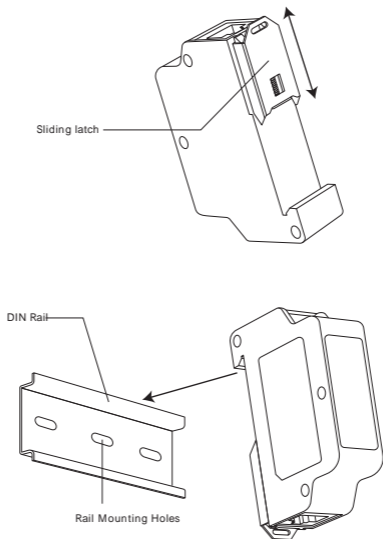- We recommend to use Cat5e or above UTP/STP cables for 1000Base-T Ethernet.

3. Installation

This product is safe for use in a waterproof case and DIN Rail mounts.

3.1 DIN Rail Installation

3.1.1 Secure one side of the product by inserting it into the edge of the guide rail, and slide the other side's latch into the edge of the guide rail on the opposite side.
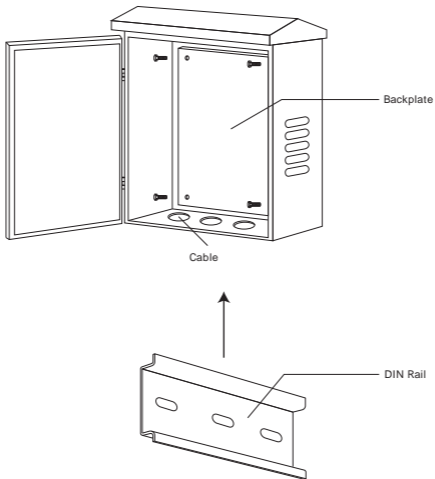
As showed in 3-1.

Sliding latch

DIN Rail

Rail Mounting Holes

3-1   DIN Rail Installation

If it is placed in an outdoor environment, please install the device in a waterproof case with a height of 45cm if possible.
As showed in figure 3-2.

Backplate

Cable

DIN Rail

3-2   Waterproof Case Installation

3.2 Connection

After installation is done, the next step is the connection. The following precautions should be taken when connecting the Ethernet cable:

3.2.1 Lay the cable according to the design requirements. The cable should be laid firmly and neatly, with no crossing, twisting, or cracking.

3.2.2 Do not lay the cable together with high-voltage pipelines, fire pipelines, or building lightning protection systems to avoid interference from strong electricity or magnetism.

3.2.3 Use PVC pipes, iron pipes, Prilka pipes, or cable trays for cable laying. The cable trays should be placed against the wall, with neat and beautiful routing. Soft hoses or elbow joints should be used at turning points. The cable trays should be secured with cable ties, hangers, and angle steels at a spacing of 1 to 1.5 meters. If a metal cable tray is used, it should be grounded at both ends.

3.2.4 For outdoor horizontal wiring, please use a slot every 6 meters under the PVC pipe as a drain to prevent water accumulation inside the pipe.

3.2.5 The wall penetration for the Ethernet cable should be sealed with waterproof and flame-retardant materials

⚠️ Cautions
Waterproof Ethernet cables should be with a protective sheath. CAT5e/6 cables are recommended.

3.3 Inspection

Inspect the installed equipment before putting it into operation

Make sure the Ethernet cable connection is correct.

Qualification Card

PASS

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