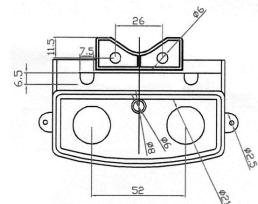
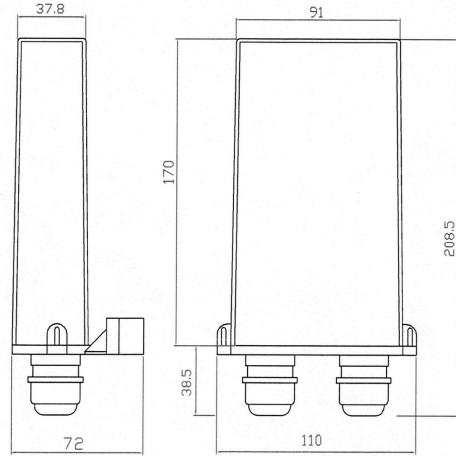
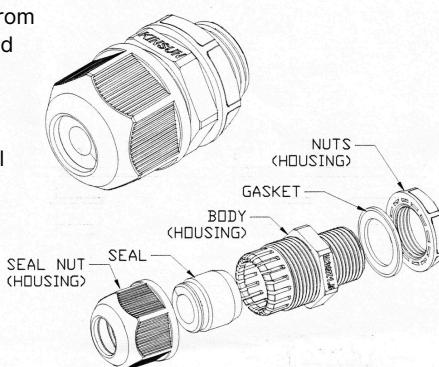


**Dimensions:****Operation & Setup:**

1. For best results, place the Surge Protector as close to the protected equipment as feasible.
2. The unit comes with a 4" hose clamp to allow mounting directly to a pole.
3. Connect the screw stud on the bottom of the housing to Earth Ground using a 14AWG or larger wire. One method is to connect the surge protector ground stud to a metal pole using a short ground wire and then connecting the bottom of the pole to Earth Ground using a 1m or longer copper rod. The important thing is to have a good low resistance path to Earth Ground for best surge protection.
4. The two ports have no polarity. The protection is bidirectional.
5. Use CAT5e or better shielded Ethernet cable for Gigabit speeds. Remove the seal nut from the top of the cable gland feedthrough and remove the inner seal. The seal has a slit indicated by 2 bumps in the surface. Split the seal and wrap on the wires. Re-assemble and tighten the seal nut until the seal is tight on the wires.



# Outdoor Ethernet Surge Protector

*Powering your network infrastructure with efficiency and precision*



## USER MANUAL

TP-ESP-GPOE-OD

[www.tyconsystems.com](http://www.tyconsystems.com)



## TP-ESP-GPOE-OD Outdoor Ethernet Surge Protector

### Description

The TP-ESP-GPOE-OD are a low cost Outdoor Ethernet Surge Protector to help protect sensitive equipment from surges caused by lightning and grid power fluctuations. The surge protector is compatible with 10/100/1000M PoE systems up to 56V. Protection is provided on all 8 CAT5e/6/6a wires. There is a ground wire connection on the bottom of the housing which can be connected to the metal pole or to a separate ground wire, connected to earth ground. It protects equipment by clamping excess voltage and diverting surge currents, ensuring reliable operation in 56V DC environments. Note: For best results, mount the surge protector as close as possible to equipment that needs protection. There is no polarity so connections can be made to either port.



### Features

- Wireless Access Points and Client Devices
- IP Phone and Security Camera Systems
- Industrial Control Systems

### Applications

- Wireless Access Points and Client Devices
- IP Phone and Security Camera Systems
- Industrial Control Systems

### Specifications:

TP-ESP-GPOE-OD	
Operating Voltage	<b>56VDC Max Continuous</b>
Current Capacity	1.25A per cable pair
Protection Mode	Differential & Common Mode
Surge Protection	125A (line-to-line) and 100A (line-to-ground) (8/20us) 5KA (line-to-ground) (8/20us)
Durability	300x 100A Surge, 10x 5KA Surge (3 min intervals)
Capacitance	<5pF
Clamping Voltage	77V (All 8 Wires) (line-to-line) 98V (All 8 Wires) (line-to-ground)
Data Rate	10/100/1000 Mbps
Response Time	<5.0 ns
Operating Temperature	-40 to +185°F (-40 to +85°C)
Storage Temperature	-40 to +185°F (-40 to +85°C)
Operating Humidity	0% to 100%, IP66 Weatherproof
Size (L x W x H)	8.2 x 4.4 x 2.8" (209 x 111 x 72mm)
Weight	0.95lb (426g)
Earth Ground Wire	14 AWG (internal), Stainless Steel Stud (external)
Ethernet Connectors	RJ45 Shielded Jacks (internal), Cable Glands (external)
IEC Standard	61000-4-5, 61643-21
IEEE/ ANSI Standard	C62.45
MTBF (Mean Time Between Failure)	819,049 Hours
Warranty	3 Years
MTBF (Mean Time Between Failure)	1,414,941 Hours
Warranty	3 Years