

# Over / Under Voltage Protection

# VDIAL

*TPD-VDIAL Over/Under Voltage Protection eliminates overvoltage and under voltage damage, lockups, glitches and reprogramming issues.*

Improve power quality for your sophisticated electronic loads. Service calls for **rebooting, reprogramming and replacing processors, circuit boards and components** can be a never-ending battle. The TPD-VDIAL gives systems integrators in line over voltage and under voltage protection with a 3 to 5 minute time delay eliminating nuisance lockups and glitches. The TPD-VDIAL offers integrators a cost effective solution to have equipment automatically shutdown and reset on low voltage conditions, without being there. The VDIAL also protects against overvoltage conditions and can be used to protect any 120 volt electronic load. Use on electronics installed in remote locations, Islands, International or Domestic destinations where power quality is a concern. Strategically eliminate lockups and or the use of batteries to keep electronics running. Remote geographic locations can be plagued with AC power that will rise and fall during the day causing lockup and damage. The TPD-VDIAL removes power during both over voltage conditions 130V or above and under voltage conditions 105V-90V or lower. The low voltage part of the unit can be set between 105V-90V to help protect against low

**Great Tool For Your TOOL BOX!**  
**Solve Problems Today**  
**Eliminate Over Voltage Failures**  
**Reduce Under Voltage Lockups**

**AV Racks**  
**Network Racks**  
**Automation**  
**Lighting Systems**  
**Pumps**  
**HVAC**  
**Air Handlers**



*Total Protection Design offers a broad range of products to extend the life and reliability of electronic equipment.*

## SPECIFICATIONS

**Applications:** 120V Electronic Voltage Dial For over voltage and under voltage protection.

**Design:** Solid State fail-safe design

**Warranty:** 3-Year Unlimited Free Replacement

**Max Current:** 20 amps

**Wires Protected:** All wires.

**Dimensions :** 4.70"H x 3.20"W x 2.28"D

**Enclosure Type:** Non-metallic

**Connection Method:** One Outlet

**Mounting Method:** Wall mount to outlet (no cord)

**Operating Temperature:** -40° C to 85° C (-40° F to 185° F)

**Weight:** 0.75 lbs. (0.34 kg)

## VDIAL PERFORMANCE SPECIFICATIONS

| Model Number | Description   | Nominal Voltage | Lower Voltage Shut Off     | Upper Voltage Shut Off | Time Delay        |
|--------------|---|-----------------|----------------------------|------------------------|-------------------|
| TPD-VDIAL    | Over/Under Voltage Protection<br>One Outlet<br>Wall Mount | 110V - 120V     | 90V - 105V<br>Set<br>VDIAL | 140V                   | 3 to 5<br>Minutes |

250V Plug configurations available upon request.

## COMMENTS

*... The lighting processor would lock up when the voltage dropped below 109 volts. We could not use a UPS because we need the system to power off. We set the VDIAL to cut out during any low voltage event unit 110 volts. The system worked perfectly and will have paid for itself and the install in one less than one week. This was the solution we all needed to see. We have these on each truck and will be installing VDIALS on all trouble applications standard.*

*... "The power rises to and sometimes above 130 volts daily at this house. We were continually losing equipment due to over voltage events before we started using the TPD-VDIAL. We are now installing the TPD-VDIAL on all equipment in all homes we work on in this development."*

*... We were losing communication due to lock ups daily. The culprit was the daily generator run check at the hospital which caused some low voltage conditions that our UPS did not pick up. We installed the TPD-VDIAL in front of the UPS which was set to turn off power at 110 volts to the UPS. The equipment was locking up at 108 volts. The TPD-VDIAL turned off power to the UPS before the low voltage locked up the equipment. We stopped having any problems the day the TPD-VDIAL was installed.*

Need additional assistance?

Call Technical Support

1-800-604-9980

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

**Tech Note:** For proper grounding and installation techniques please refer to installation manual.

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