

## ZoneDefender® PRO Series Panel Protection Devices

Sentrex® ZoneDefender® PRO ZPA and ZPB Series Surge Protective Devices are compact, full-featured, heavy-duty surge protective devices that will protect sensitive electronic equipment from external or internal transient activity.


All units come standard with EMI/RFI filtering, remote indication contacts and audible alarm and meet UL1449 Third Edition requirements.

The feature-rich ZoneDefender PRO Series is ideally suited for any application where high quality non-modular protection is desired.



Sentrex ZoneDefender Pro Series provides surge protection at the main service panel, sub panel or at sensitive equipment.

### FEATURES & BENEFITS

- **Up to 160kA maximum surge current protection per phase.**
- **Standard EMI/RFI noise filter.** Noise attenuation –75dB maximum 100 kHz to 100 MHz.
- **Easy installation.** Enclosure can be easily drilled or punched for conduit/cable access and positioned to the electrical panel at the discretion of the installer.
- **Standard Remote diagnostic connection.** Using NO/NC dry contacts via on-board relay. Remote monitoring device sold separately.
- **Type 2 Surge Protective Device (SPD).** Nominal discharge current rating of 10kA.
- **Built-in audible alarm.**
- **All-mode protection is standard on all units.**
- **Short circuit rating 200k AIC.**
- **NEMA 1, 2, 12, 13 rated, metal enclosure.**
- **Short circuit and thermal fusing.**
- **Visual indication of protection status.**
- **Ten-year product warranty.**
- **UL1449 Third Edition Listed.**
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## Product Selection Guide

### ZPB Series – 160kA

CATALOG NUMBER	ELECTRICAL SERVICE	UL1449 CLAMPING LEVEL (VPR)**				MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV)			
		L-N	L-L	N-G	L-G	L-N	L-L	N-G	L-G
<b>ZPB120T</b>	120/240V, Single Ø	600V	900V	500V	500V	130V	260V	130V	130V
<b>ZPB120Y</b>	120/208V, 3Ø Wye	600V	900V	500V	500V	130V	260V	130V	130V
<b>ZPB277Y</b>	277/480V, 3Ø Wye	1000V	1800V	1000V	1000V	320V	640V	320V	320V
<b>ZPB240DCT</b>	120/240/120V, Hi-Leg Delta	1000V*	900V	500V	500V	320V*	260V	130V	130V

\* Hi L-N


\*\* Voltage Protection Rating

### ZPA Series – 80kA

CATALOG NUMBER	ELECTRICAL SERVICE	UL1449 CLAMPING LEVEL (VPR)**				MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV)			
		L-N	L-L	N-G	L-G	L-N	L-L	N-G	L-G
<b>ZPA120T</b>	120/240V, Single Ø	600V	900V	500V	500V	130V	260V	130V	130V
<b>ZPA120Y</b>	120/208V, 3Ø Wye	600V	900V	500V	500V	130V	260V	130V	130V
<b>ZPA277Y</b>	277/480V, 3Ø Wye	1000V	1800V	1000V	1000V	320V	640V	320V	320V
<b>ZPA240DCT</b>	120/240/120V, Hi-Leg Delta	1000V*	900V	500V	500V	320V*	260V	130V	130V

\* Hi L-N

\*\* Voltage Protection Rating

Product	Description/Specifications
<b>ZHRMU</b>  	<p><b>Remote Monitoring Unit</b> – Offers clear audio/visual indication of the status of the surge suppressor unit. The RMU can be installed adjacent to the suppressor or as a remote installation. Can also be used as a standalone diagnostic device using NO/NC dry contacts. Powered by 2 AA alkaline batteries (included) which will power the unit for approximately 2 years. Unit connects with Cat5 cable (not included).</p> <p><b>SPECIFICATIONS</b></p> <p><b>Dimensions:</b> 5.4" x 2.6" x 1.3" [13.7mm x 6.6mm x 3.3mm]</p> <p><b>Weight:</b> Approx. 0.35lb [0.16kg] including batteries.</p> <p><b>Protection Indication:</b> Bright green LED: Illuminated, flashing</p> <p><b>Fault Indication:</b> Audible alarm. Bright red LED: Illuminated</p> <p><b>Test Functions:</b> Switch tests audible alarm (checks monitoring circuitry)</p> <p><b>Silent Function:</b> Switch silences audible alarm</p> <p><b>Connections:</b> Accepts wires up to #14 AWG</p>

## Product Specifications

### MECHANICAL SPECIFICATIONS:

<b>Enclosure:</b>	Durable, painted steel. Approved for indoor use. NEMA 1, 2, 12 and 13 rated.
<b>Dimensions:</b>	9 1/4" x 4 7/8" x 3" (235mm x 124mm x 76mm).
<b>Weight:</b>	ZPB Series: 7.9 lbs. (3.6 kg), ZPA Series: 5.3 lbs. (2.4 kg).
<b>Operating Environment:</b>	-40°C to 85°C, 95% relative humidity (non-condensing).
<b>Construction:</b>	Low impedance circuitry. Single board system to minimize transient impedance and suppression voltage.
<b>Terminal Loads:</b>	ZPB Series: #8 AWG, ZPA Series: #10 AWG, 22 AWG for remote contacts.
<b>Mounting:</b>	Built-in mounting holes, 3/16" [4.8mm] diameter.

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### ELECTRICAL SPECIFICATIONS:

<b>Maximum Surge Current Capacity Per Phase:</b>	<b>ZPB Series: 160,000A</b> <b>ZPA Series: 80,000A</b>
<b>Maximum Surge Current Capacity Per Mode:</b>	<b>ZPB Series:</b> L-G 80,000A (8/20μs), L-N 80,000A (8/20μs), L-L 160,000A (8/20μs), N-G 80,000A (8/20μs) <b>ZPA Series:</b> L-G 40,000A (8/20μs), L-N 40,000A (8/20μs), L-L 80,000A (8/20μs), N-G 40,000A (8/20μs)
<b>Duty Cycle Performance (Surge Life):</b>	<b>ZPB Series:</b> 200 pulses at 10,000A <b>ZPA Series:</b> 100 pulses at 10,000A
<b>Nominal Discharge Current (I<sub>n</sub>):</b>	<b>All Models:</b> 10kA
<b>Remote Indication Contacts:</b>	NO/NC dry contacts via on-board relay, 125VAC, 3A rated
<b>EMI/RFI Noise Attenuation:</b>	-75dB Maximum 100 kHz to 100 MHz
<b>Diagnostics:</b>	Green LED indicates protection present
<b>Protection Technology:</b>	MOV based, backed by thermal and short circuit fusing
<b>Installation:</b>	Unit should be connected through a dedicated 30 amp circuit breaker with the appropriate poles (customer supplied).

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**Questions? Call Technical Support at 1-800-SENTREX**

## NOTES



### Electrical Wiring Systems

60 Woodlawn Street  
West Hartford, CT 06110  
Phone: 1.877.BY.LEGRAND (295-3472)  
[www.legrand.us](http://www.legrand.us)

570 Applewood Crescent  
Vaughan, Ontario L4K 4B4  
Phone: 905.738.9195  
[www.legrand.ca](http://www.legrand.ca)



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Authorized Distributor

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[ZHRMU250](#)