

ZoneMaster[®] Series Surge Protection Devices

New Improved ZoneMaster[®] Series Configurable Hard-Wired Surge Protection Devices

Wiremold[®] ZoneMaster[®] Series Surge Protection Devices are fully configurable panel protection solutions that protect your facility from the destructive effects of power surges. New and improved with a complete range of options including a fused disconnect, noise filter and remote monitoring capabilities, all ZoneMaster models also now comply with UL1449, Third Edition.

You can easily tailor a ZoneMaster Series solution to provide surge protection for basic or the most advanced applications for all standard electrical service voltages. Units are available for subpanel protection starting at 100kA, and ranging up to 400kA protection for main distribution panels.

ZoneMaster Series configurable hard-wired surge protection devices are an integral part of the Sentrex Zoned Approach to whole building protection.



ZoneMaster 340

FEATURES & BENEFITS

- Up to 400kA maximum surge current protection.
- All mode protection standard on all units.
- Replaceable bolt-in modules.
- ZoneMaster PRO Series Surge Protection Devices use a NEMA 3S, 4, 12, 13 metal enclosure.
- Integrated diagnostics. Each module provides visual indication of its operating status.
- Massive large block MOVs. Each module contains two independent large block MOVs, each consisting of dual 40mm MOVs. This configuration far exceeds the capability of 20mm MOVs in parallel to manage long duration surges.
- Dual short circuit and thermal fusing.
- Low impedance construction.
- Eutectic alloy thermal fuse. Passes UL1449 Third Edition standards. Also withstands lightning surge currents.

- Surge counter standard on ZoneMaster PRO Models.
- **No standard thermal cutouts.** Standard thermal cutouts can fail at surge currents as low as 10kA.
- Neutral-to-ground protection module with leakage indicators.
- Low let-through performance with high current impulse.
- NO/NC dry contacts.
- Ten-Year Product Warranty. Legrand/Wiremold will replace any defective/failed unit or module free of charge (labor and site preparation excluded) for a period of ten years.
- UL1449 Third Edition Listed.

AVAILABLE OPTIONS

- Remote monitoring unit.
- EMI/RFI noise filter.

- Fused disconnect.
- Flush mount cover.

(See inside for more details.)

Hard Wired Surge Protection Selection Matrix

		ΜΑΙΝ	ENTRAN	CE PROT	ECTION		
		BEST	-	BETTER	G	O O D	
= Standard				PANEL P	ROTECT	ΙΟΝ	
0 = Optional			BEST		BETTEF	3	GOOD
		Hard Wi	red Surge Pro	otection Units	;		
Electrical Service	ZM 400 400kA	ZM Pro 400 400kA	ZM 340 340kA	ZM Pro 340 340kA	ZM 200 200kA	ZM Pro 200 200kA	ZS 100 100kA
120/240V, Single Ø	ZE120T	ZEM120T	ZC120T	ZCM120T	ZB120T	ZBM120T	ZA120T
120/208V, 3Ø Wye	ZE120Y	ZEM120Y	ZC120Y	ZCM120Y	ZB120Y	ZBM120Y	ZA120Y
277/480V, 3Ø Wye	ZE277Y	ZEM277Y	ZC277Y	ZCM277Y	ZB277Y	ZBM277Y	ZA277Y
			ΟΡΤΙΟ	NS		I	
A – Remote Alarm*	0	O**	0	O**	0	O**	0
B – Filter	0	0	0	0	0	0	0
F – Fused Disconnect	N/A	0	N/A	0	N/A	0	N/A
G – Flush Mount	N/A	0	N/A	0	N/A	0	0
H – NEMA 4 Enclosure	S	0	S	0	S	0	S

* Available separately as Catalog No. ZHRMU.
** PRO units include standard internal alarm. Remote alarm option extra.

How to Create a Part Number

1. Select base part number by choosing kA and Electrical Service.

2. Select options if desired (options marked as standard are not incorporated into the part number).

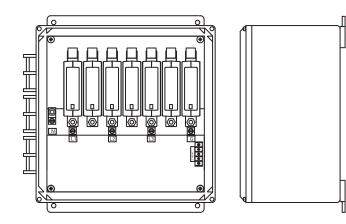
3. Part number is BASE number, followed by HYPHEN, followed by OPTIONS in alphabetical order.

SAMPLE	SAMPLE	SAMPLE
340kA for 120/240V with Remote Alarm and Filter	200kA PRO Unit for 277/480V with Remote Alarm	100kA for 120/208V No Options Selected
Part# ZC120T-AB	Part# ZBM277Y-A	Part# ZA120Y

ZoneMaster 400

The ZoneMaster Series is designed to protect a high-exposure main service entrance against the most extreme transient environment. Dual protection circuits provide redundancy ensuring the site is always protected. Engineered to provide decades of uninterrupted surge protection, the ZoneMaster 400 provides the lowest suppression voltages available and full protection in all models (L-N, L-G, L-L, and N-G).





ZoneMaster 400 Options

Remote monitoring unit.

■ EMI/RFI noise filter. Noise attenuation -75dB maximum 100 kHz to 100 MHz.

See page 17 for complete specifications on options.

Mechanical Specifications:

ZoneMaster Pro 400 is 20% to 50% smaller in size than other protectors claiming similar performance. Small size means easier installation and a better installation since the protector can often be located closer to the panel thereby minimizing the effect of connecting lead length.

Enclosure:	Durable, lightweight, corrosion resistant high impact plastic. Ultraviolet stabilized UL94-5V rated. NEMA 1, 2, 3, 3S, 4, 4X, 12 and 13. Transparent cover for maximum visibility and safety.
Dimensions:	12.4" x 13.7" x 7.3" [315mm x 348mm x 185mm]
Weight:	Approx. 12.5 lbs. (5.7 kg)
Operating Environment:	-40°C to 85°C, 95% relative humidity (non-condensing)
Construction:	Low impedance assembly. Modules are bolted (1/4" bolts) to a large surge return plate to minimize transient impedance and suppression voltage.
Terminal Lugs:	#2 AWG max wire size
Mounting:	0.31" [8mm] diameter holes. Enclosure can be easily drilled for conduit/cable access.

Electrical Specifications							
	MAXIMUM SURGE CURRENT PER PHASE						
ZONEMASTER 400	200,000A	200,000A	400,000A	200,000A	400,000A		

Electrical Specifications: Maximum Continuous Operating Voltage:	See table below
Remote Indication Contacts:	NO/NC, 125VAC, 2A rated
Module Diagnostics:	Protection present – Green LED lit. Fault warning – Red LED lit. High voltage neutral to ground – Red & Green LEDs lit.
Protection Technology:	Patented large block, three terminal MOVs.
Module Protection:	Dual thermal and short circuit fusing mechanisms; UL94-5V rated plastic enclosure.
Short Circuit Current Rating:	100k AIC.
Redundant Protection Stages in all Modes:	Each module contains dual independent redundant protection circuits.
Nominal Discharge Current (I _n):	10kA.

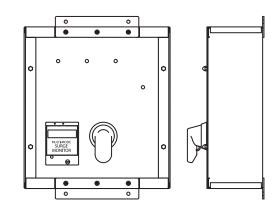
Duty Cycle Performance (Surge Life)								
	MAXIMUM SURGE CURRENT PER MODE	REPETITIVE SURGE CURRENT (≥4 IMPULSES PER MODE)	MAXIMUM NUMBER OF CURRENT IMPULSE AT 10,000 (8/20)	LONG DURATION SURGE CURRENT (10/1,000 µS)				
ZONEMASTER 400	200,000A	100,000A	8,000	3,600A				

120V Models								
	UL1449 VOLTAGE MAXIMUM CONTINUOUS PROTECTION LEVEL OPERATING VOLTAGE (MCOV)							
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
ZE120T 120/240V	700V	600V	1000V	700V	127V	127V	254V	127V
ZE120Y 120/208V	700V	600V	1000V	700V	127V	127V	220V	127V

277V Models								
	UL1449 VOLTAGE PROTECTION LEVEL				0		CONTINUOUS OLTAGE (MCC	
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
ZE277Y 277/480V	1200V	1200V	1800V	1200V	293V	293V	508V	293V

ZoneMaster PRO 400

The ZoneMaster PRO 400 Series provides the same extreme protection as the ZoneMaster 400 but uses a durable steel enclosure and comes standard with a surge counter, front monitor, and audible alarm.





ZoneMaster PRO 400 Options

- Remote monitoring unit.
- Fused Disconnect.
- NEMA 4 Enclosure.

- EMI/RFI noise filter. Noise attenuation -75dB maximum 100 kHz to 100 MHz.
- Flush Mount.

See page 17 for complete specifications on options.

Mechanical Specifications:

ZoneMaster PRO 400 is 20% to 50% smaller in size than other protectors claiming similar performance. Small size means easier installation and a better installation since the protector can often be located closer to the panel thereby minimizing the effect of connecting lead length.

Enclosure:	Durable, painted steel. NEMA 1, 2.
Dimensions:	17.5" x 14" x 5.47" [445mm x 356mm x 139mm] without disconnect. 17.5" x 14" x 7.30" [445mm x 356mm x 186mm] with disconnect.
Weight:	Approx. 25.4 lbs. (11.5 kg)
Operating Environment:	-40°C to 85°C, 95% relative humidity (non-condensing)
Construction:	Ultra low impedance assembly. Modules are bolted to a corrosion resistant, tin plated copper bus bar. No plug-in modules in the surge path.
Terminal Lugs:	#2 AWG max wire size
Mounting:	0.31" [8mm] diameter holes. Enclosure can be easily drilled for conduit/cable access.
Module Replacement:	Power should be disconnected prior to module replacement. Remove 1/4" nuts, unplug remote indication connector and remove module. Estimated replacement time: 2 minutes.

Electrical Specifications						
MAXIMUM SURGE CURRENT FOR EACH PROTECTION MODE L-N L-G L-L N-G					MAXIMUM SURGE CURRENT PER PHASE	
ZONEMASTER PRO 400	200,000A	200,000A	400,000A	200,000A	400,000A	

ZoneMaster PRO 400 Specifications (continued)

Electrical Specifications: Maximum Continuous Operating Voltage:	See table below
Remote Indication Contacts:	NO/NC, 125VAC, 2A rated
Module Diagnostics:	Protection present – Green LED lit. Fault warning – Red LED lit. High voltage neutral to ground – Red & Green LEDs lit.
Protection Technology:	Patented large block, three terminal MOVs.
Module Protection:	Dual thermal and short circuit fusing mechanisms; UL94-5V rated plastic enclosure.
Short Circuit Current Rating:	100k AIC.
Redundant Protection Stages in all Modes:	Each module contains dual independent redundant protection circuits.
Nominal Discharge Current (I _n):	10kA.

Duty Cycle Performance (Surge Life)								
	MAXIMUM SURGE CURRENT PER MODE	REPETITIVE SURGE CURRENT (≥4 IMPULSES PER MODE)	MAXIMUM NUMBER OF CURRENT IMPULSE AT 10,000 (8/20)	LONG DURATION SURGE CURRENT (10/1,000 µS)				
ZONEMASTER PRO 400	200,000A	100,000A	8,000	3,600A				

Surge Protection Performance:

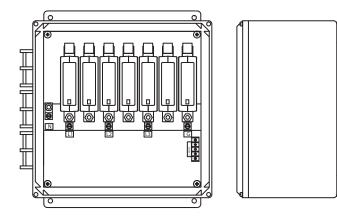
120V Models									
	UL1449 VOLTAGE MAXIMUM CONTINUOUS PROTECTION LEVEL OPERATING VOLTAGE (MCOV)								
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G	
ZEM120T 120/240V	800V	700V	1000V	600V	127V	127V	254V	127V	
ZEM120Y 120/208V	800V	700V	1000V	600V	127V	127V	220V	127V	

277V Models								
	UL1449 VOLTAGE MAXIMUM CONTINUOUS PROTECTION LEVEL OPERATING VOLTAGE (MCOV)							
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
ZEM277Y 277/480V	1200V	1200V	1800V	1000V	293V	293V	508V	293V

ZoneMaster 340

The ZoneMaster Series is engineered to withstand the most severe transient environment at large service entrance or distribution panels, and provide decades of uninterrupted surge protection. Dual protection circuits provide redundancy ensuring the site is always protected. The ZoneMaster 340 provides the lowest suppression voltages available, 170kA surge capacity per mode, as well as full protection in all models (L-N, L-G, L-L, and N-G).





ZoneMaster 340 Options

Remote monitoring unit.

■ EMI/RFI noise filter. Noise attenuation -75dB maximum 100 kHz to 100 MHz.

See page 17 for complete specifications on options.

Enclosure:	Durable, lightweight, corrosion resistant high impact plastic. Ultraviolet stabilized UL94-5V rated. NEMA 1, 2, 3, 3S, 4, 4X, 12 and 13. Transparent cover for maximum visibility and safety.
Dimensions:	12.4" x 13.7" x 7.3" [315mm x 348mm x 185mm]
Weight:	Approx. 12.5 lbs. (5.7 kg)
Operating Environment:	-40°C to 85°C, 95% relative humidity (non-condensing)
Construction:	Low impedance assembly. Modules are bolted (1/4" bolts) to a large surge return plate to minimize transient impedance and suppression voltage.
Terminal Lugs:	#2 AWG max wire size
Mounting:	0.31" [8mm] diameter holes. Enclosure can be easily drilled for conduit/cable access.

Electrical Specifications							
	MAXIMUM SURGE CURRENT FOR EACH PROTECTION MODE						
ZONEMASTER 340	170,000A	170,000A	340,000A	170,000A	340,000A		

ZoneMaster 340 Specifications (continued)

Electrical Specifications: Maximum Continuous Operating Voltage:	See table below
Remote Indication Contacts:	NO/NC, 125VAC, 2A rated
Module Diagnostics:	Protection present – Green LED lit. Fault warning – Red LED lit. High voltage neutral to ground – Red & Green LEDs lit.
Protection Technology:	Patented large block, three terminal MOVs.
Module Protection:	Dual thermal and short circuit fusing mechanisms; UL94-5V rated plastic enclosure.
Short Circuit Current Rating:	100k AIC.
Redundant Protection Stages in all Modes:	Each module contains dual independent redundant protection circuits.
Nominal Discharge Current (I _n):	10kA.

Duty Cycle Performance (Surge Life)								
	MAXIMUM SURGE CURRENT PER MODE	REPETITIVE SURGE CURRENT (≥4 IMPULSES PER MODE)	MAXIMUM NUMBER OF CURRENT IMPULSE AT 10,000 (8/20)	LONG DURATION SURGE CURRENT (10/1,000 µS)				
ZONEMASTER 340	170,000A	100,000A	8,000	3,600A				

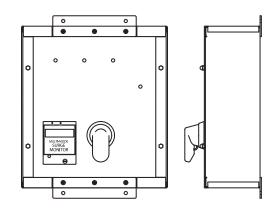
Surge Protection Performance:

120V Models								
	UL1449 VOLTAGE MAXIMUM CONTINUOUS PROTECTION LEVEL OPERATING VOLTAGE (MCOV)							
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
ZC120T 120/240V	700V	600V	1000V	700V	127V	127V	254V	127V
ZC120Y 120/208V	700V	600V	1000V	700V	127V	127V	220V	127V

277V Models								
UL1449 VOLTAGE MAXIMUM CONTINUOUS PROTECTION LEVEL OPERATING VOLTAGE (MCOV)								
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
ZC277Y 277/480V	1200V	1200V	1800V	1200V	293V	293V	508V	293V

ZoneMaster PR0 340

The ZoneMaster PRO 340 Series provides the same extreme protection as the ZoneMaster 340 but uses a durable steel enclosure and comes standard with a surge counter, front monitor, and audible alarm.





ZoneMaster PRO 340 Options

- Remote monitoring unit.
- Fused Disconnect.
- NEMA 4 Enclosure.

- EMI/RFI noise filter. Noise attenuation -75dB maximum 100 kHz to 100 MHz.
- Flush Mount.

See page 17 for complete specifications on options.

Enclosure:	Durable, painted steel. NEMA 1, 2.
Dimensions:	17.5" x 14" x 5.47" [445mm x 356mm x 139mm] without disconnect. 17.5" x 14" x 7.30" [445mm x 356mm x 186mm] with disconnect.
Weight:	Approx. 25.4 lbs. (11.5 kg)
Operating Environment:	-40°C to 85°C, 95% relative humidity (non-condensing)
Construction:	Ultra low impedance assembly. Modules are bolted to a corrosion resistant, tin plated copper bus bar. No plug-in modules in the surge path.
Terminal Lugs:	#2 AWG max wire size
Mounting:	0.31" [8mm] diameter holes. Enclosure can be easily drilled for conduit/cable access.
Module Replacement:	Power should be disconnected prior to module replacement. Remove 1/4" nuts, unplug remote indication connector and remove module. Estimated replacement time: 2 minutes.

Electrical Specifications								
	MAXIMUM SU	MAXIMUM SURGE CURRENT						
	L-N	L-G	L-L	N-G	PER PHASE			
ZONEMASTER PRO 340	170,000A	170,000A	340,000A	170,000A	340,000A			

Electrical Specifications: Maximum Continuous Operating Voltage:	See table below
Remote Indication Contacts:	NO/NC, 125VAC, 2A rated
Module Diagnostics:	Protection present – Green LED lit. Fault warning – Red LED lit. High voltage neutral to ground – Red & Green LEDs lit.
Protection Technology:	Patented large block, three terminal MOVs.
Module Protection:	Dual thermal and short circuit fusing mechanisms; UL94-5V rated plastic enclosure.
Short Circuit Current Rating:	100k AIC.
Redundant Protection Stages in all Modes:	Each module contains dual independent redundant protection circuits.
Nominal Discharge Current (In):	10kA.

Duty Cycle Performance (Surge Life)								
	MAXIMUM SURGE CURRENT PER MODE	REPETITIVE SURGE CURRENT (≥4 IMPULSES PER MODE)	MAXIMUM NUMBER OF CURRENT IMPULSE AT 10,000 (8/20)	LONG DURATION SURGE CURRENT (10/1,000 µS)				
ZONEMASTER PRO 340	170,000A	100,000A	8,000	3,600A				

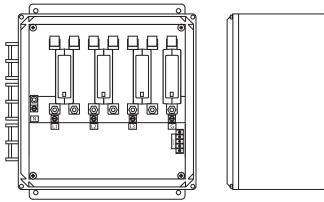
			120V Mo	dels				
		UL1449 VOLTAGE MAXIMUM CONTINUOUS PROTECTION LEVEL OPERATING VOLTAGE (MCOV)						
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
ZCM120T 120/240V	800V	700V	1000V	600V	127V	127V	254V	127V
ZCM120Y 120/208V	800V	700V	1000V	600V	127V	127V	220V	127V

			277V Mo	dels				
		UL1449 VOLTAGE MAXIMUM CONTINUOUS PROTECTION LEVEL OPERATING VOLTAGE (MCOV)						
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
ZCM277Y 277/480V	1200V	1200V	1800V	1000V	293V	293V	508V	293V

ZoneMaster 200

The ZoneMaster 200 Series is engineered to withstand the most severe transient environment at large service entrance or distribution panels, and provide decades of uninterrupted surge protection. Dual protection circuits provide redundancy ensuring the site is always protected. The ZoneMaster 200 provides the lowest suppression voltages available, 100kA surge capacity per mode, as well as full protection in all models (L-N, L-G, L-L, and N-G).





ZoneMaster 200 Options

Remote monitoring unit.

■ EMI/RFI noise filter. Noise attenuation -75dB maximum 100 kHz to 100 MHz.

See page 17 for complete specifications on options.

Enclosure:	Durable, lightweight, corrosion resistant high impact plastic. Ultraviolet stabilized UL94-5V rated. NEMA 1, 2, 3, 3S, 4, 4X, 12 and 13. Transparent cover for maximum visibility and safety.
Dimensions:	12.4" x 13.7" x 7.3" [315mm x 348mm x 185mm]
Weight:	Approx. 10.5 lbs. (4.8 kg)
Operating Environment:	-40°C to 85°C, 95% relative humidity (non-condensing)
Construction:	Low impedance assembly. Modules are bolted (1/4" bolts) to a large surge return plate to minimize transient impedance and suppression voltage.
Terminal Lugs:	#2 AWG max wire size
Mounting:	0.31" [8mm] diameter holes. Enclosure can be easily drilled for conduit/cable access.

Electrical Specifications					
	MAXIMUM SU L-N	JRGE CURRENT L-G	ECTION MODE N-G	MAXIMUM SURGE CURRENT PER PHASE	
ZONEMASTER 200	100,000A	100,000A	200,000A	100,000A	200,000A

Electrical Specifications: Maximum Continuous Operating Voltage:	See table below
Remote Indication Contacts:	NO/NC, 125VAC, 2A rated
Module Diagnostics:	Protection present – Green LED lit. Fault warning – Red LED lit. High voltage neutral to ground – Red & Green LEDs lit.
Protection Technology:	Patented large block, three terminal MOVs.
Module Protection:	Dual thermal and short circuit fusing mechanisms; UL94-5V rated plastic enclosure.
Short Circuit Current Rating:	100k AIC.
Redundant Protection Stages in all Modes:	Each module contains dual independent redundant protection circuits.
Nominal Discharge Current (I _n):	10kA.

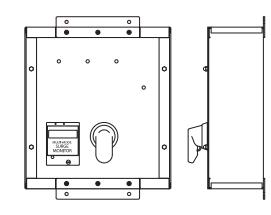
Duty Cycle Performance (Surge Life)					
	MAXIMUM SURGE CURRENT PER MODE	REPETITIVE SURGE CURRENT (≥4 IMPULSES PER MODE)	MAXIMUM NUMBER OF CURRENT IMPULSE AT 10,000 (8/20)	LONG DURATION SURGE CURRENT (10/1,000 µS)	
ZONEMASTER 200	100,000A	100,000A	8,000	3,600A	

			120V Mo	dels				
		UL1449 VOLTAGE MAXIMUM CONTINUOUS PROTECTION LEVEL OPERATING VOLTAGE (MCOV)						
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
ZB120T 120/240V	700V	700V	1000V	700V	127V	127V	254V	127V
ZB120Y 120/208V	700V	700V	1000V	700V	127V	127V	220V	127V

			277V Mo	dels				
		UL1449 VOLTAGE MAXIMUM CONTINUOUS PROTECTION LEVEL OPERATING VOLTAGE (MCOV)						
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
ZB277Y 277/480V	1200V	1200V	1800V	1200V	293V	293V	508V	293V

ZoneMaster PRO 200

The ZoneMaster PRO 200 Series provides the same extreme protection as the ZoneMaster 200 but uses a durable steel enclosure and comes standard with a surge counter, front monitor, and audible alarm.





ZoneMaster PRO 200 Options

- Remote monitoring unit.
- Fused Disconnect.
- NEMA 4 Enclosure.

- EMI/RFI noise filter. Noise attenuation -75dB maximum 100 kHz to 100 MHz.
- Flush Mount.

See page 17 for complete specifications on options.

Mechanical Specifications:	
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Enclosure:	Durable, painted steel. NEMA 1, 2.			
Dimensions:	17.5" x 14" x 5.47" [445mm x 356mm x 139mm] without disconnect. 17.5" x 14" x 7.30" [445mm x 356mm x 186mm] with disconnect.			
Weight:	oprox. 25.4 lbs. (11.5 kg)			
Operating Environment:	-40°C to 85°C, 95% relative humidity (non-condensing)			
Construction:	Ultra low impedance assembly. Modules are bolted to a corrosion resistant, tin plated copper bus bar. No plug-in modules in the surge path.			
Terminal Lugs:	#2 AWG max wire size			
Mounting:	0.31" [8mm] diameter holes. Enclosure can be easily drilled for conduit/cable access.			
Module Replacement:	Power should be disconnected prior to module replacement. Remove 1/4" nuts, unplug remote indication connector and remove module. Estimated replacement time: 2 minutes.			

Electrical Specifications					
	MAXIMUM SURGE CURRENT FOR EACH PROTECTION MODE L-N L-G L-L N-G				MAXIMUM SURGE CURRENT PER PHASE
ZONEMASTER PRO 200	100,000A	100,000A	200,000A	100,000A	200,000A

Electrical Specifications: Maximum Continuous Operating Voltage:	See table below
Remote Indication Contacts:	NO/NC, 125VAC, 2A rated
Module Diagnostics:	Protection present – Green LED lit. Fault warning – Red LED lit. High voltage neutral to ground – Red & Green LEDs lit.
Protection Technology:	Patented large block, three terminal MOVs.
Module Protection:	Dual thermal and short circuit fusing mechanisms; UL94-5V rated plastic enclosure.
Short Circuit Current Rating:	100k AIC.
Redundant Protection Stages in all Modes:	Each module contains dual independent redundant protection circuits.
Nominal Discharge Current (In):	10kA.

Duty Cycle Performance (Surge Life)							
	MAXIMUM SURGE CURRENTREPETITIVE SURGE CURRENTPER MODE(≥4 IMPULSES PER MODE)		MAXIMUM NUMBER OF CURRENT IMPULSE AT 10,000 (8/20)	LONG DURATION SURGE CURRENT (10/1,000 µS)			
ZONEMASTER PRO 200	100,000A	100,000A	8,000	3,600A			

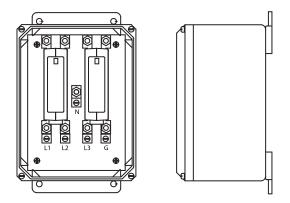
120V Models									
		UL1449 VOLTAGE PROTECTION LEVEL				MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV)			
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G	
ZBM120T 120/240V	700V	700V	1000V	600V	127V	127V	254V	127V	
ZBM120Y 120/208V	700V	700V	1000V	600V	127V	127V	220V	127V	

277V Models								
		UL1449 VOLTAGE PROTECTION LEVEL			MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV)			
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
ZBM277Y 277/480V	1200V	1200V	1800V	1000V	293V	293V	508V	293V

ZoneSentinel[®] 100

Engineered specifically for application at distribution boards and small service entrance locations., ZoneSentinel[®] provides cost effective, high capacity surge protection. When used at a local panel, in combination with a ZoneMaster at the service entrance, ZoneSentinel provides the lowest suppression voltages available today, as well as full protection in all ten models (L-N, L-G, L-L, and N-G).





ZoneSentinel 100 Options

Remote monitoring unit.

■ EMI/RFI noise filter. Noise attenuation -75dB maximum 100 kHz to 100 MHz.

See page 17 for complete	specifications on options.
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Enclosure:	Durable, lightweight, corrosion resistant high impact plastic. Ultraviolet stabilized UL94-5V rated. NEMA 1, 2, 3, 3S, 4, 4X, 12 and 13. Transparent cover for maximum visibility and safety.
Dimensions:	9.7" x 6.4" x 5.1" [246mm x 163mm x 130mm]
Weight:	Approx. 4 lbs. (1.8 kg)
Operating Environment:	-40°C to 85°C, 95% relative humidity (non-condensing)
Construction:	Low impedance assembly. Modules are bolted (1/4" bolts) to a large surge return plate to minimize transient impedance and suppression voltage.
Terminal Lugs:	#2 AWG max wire size
Mounting:	0.31" [8mm] diameter holes. Enclosure can be easily drilled for conduit/cable access.

Electrical Specifications						
	MAXIMUM SU	IRGE CURRENT	MAXIMUM SURGE CURRENT PER PHASE			
ZONESENTINEL 100	50,000A	50,000A	100,000A	50,000A	100,000A	

Electrical Specifications: Maximum Continuous Operating Voltage:	See table below
Remote Indication Contacts:	NO/NC, 125VAC, 2A rated
Module Diagnostics:	Protection present – Green LED lit. Fault warning – Red LED lit. High voltage neutral to ground – Red & Green LEDs lit.
Protection Technology:	Patented large block, three terminal MOVs.
Module Protection:	Dual thermal and short circuit fusing mechanisms; UL94-5V rated plastic enclosure.
Short Circuit Current Rating:	100k AIC.
Redundant Protection Stages in all Modes:	Each module contains dual independent redundant protection circuits.
Nominal Discharge Current (I _n):	10kA.

Duty Cycle Performance (Surge Life)							
	MAXIMUM SURGE CURRENT PER MODE	REPETITIVE SURGE CURRENT (≥4 IMPULSES PER MODE)	MAXIMUM NUMBER OF CURRENT IMPULSE AT 10,000 (8/20)	LONG DURATION SURGE CURRENT (10/1,000 µS)			
ZONESENTINEL 100	50,000A	50,000A	6,000	3,600A			

120V Models								
	UL1449 VOLTAGE PROTECTION LEVEL				MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV)			
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G
ZA120T 120/240V	600V	700V	1000V	600V	140V	140V	280V	140V
ZA120Y 120/208V	600V	700V	1000V	600V	140V	140V	280V	140V

277V Models									
		UL1449 VOLTAGE PROTECTION LEVEL				MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV)			
PRODUCT SERIES	L-N	L-G	L-L	N-G	L-N	L-G	L-L	N-G	
ZA277Y 277/480V	1200V	1200V	1800V	1000V	320V	320V	640V	320V	

	Options	
Product	Description/Specification	IS
Remote Monitoring Unit	The RMU can be installed installation. Can also be us dry contacts. Powered by the unit for approximately included).	dication of the status of the surge suppressor unit. adjacent to the suppressor or as a remote sed as a standalone diagnostic device using NO/NC 2 AA alkaline batteries (included) which will power 2 years. Unit connects with with Cat5 cable (not arately to supplement existing installations using
BATTERY DOWERED	SPECIFICATIONS	
BATTERY POWERED REMOTE MONITOR	Dimensions:	5.4" x 2.6" x 1.3" [13.7mm x 6.6mm x 3.3mm]
	Weight:	Approx. 0.35lb [0.16kg] including batteries.
HE ST D FEED ALLOCK	Protection Indication:	Bright green LED: Illuminated, flashing
	Fault Indication:	Audible alarm. Bright red LED: Illuminated
	Test Functions:	Switch tests audible alarm (checks monitoring circuitry)
	Silent Function:	Switch silences audible alarm
	Connections:	Accepts wires up to #14 AWG (Cat5 recommended)
Extended Range Power Filter	Unique ultra high performa range of load or line gener	nce, bi-directional filter eliminates a broad ated high frequency noise.
Extended Bases	ELECTRICAL SPECIFIC	ATIONS
Extended Range Power Filer	EMI/RFI Noise Attenuation:	-75dB Maximum 100 kHz to 100 MHz
	Maximum Operating Voltage (L-N):	400VAC Rated
(h)	Peak Let-Through Voltage (ANSI/IEEE C62.41 Cat B3 6kV	
	Ringwave):	200V
	Agency Approval:	UL1283 Listed
	Sinewave Tracking:	Controls transients at any point on the sinewave
Fused Disconnect	Fused disconnect feature	es 200,000 AIC fusing.

	ZoneMaster Replacement Modules							
UNIT	MODULE	MODULE	QUANTITY	MODE				
CAT. NO.	CAT. NO.	DESCRIPTION	USED	USED				
ZEM120T/ZE120T	81144A	ZoneMaster ZE/ZC Module 120V L-N	2	L-N				
	81145A	ZoneMaster ZE/ZC Module 120V L-G	2	L-G				
	81148A	ZoneMaster ZE/ZC/ZB Module 120V N-G	1	N-G				
ZEM120Y/ZE120Y	81144A	ZoneMaster ZE/ZC Module 120V L-N	3	L-N				
	81145A	ZoneMaster ZE/ZC Module 120V L-G	3	L-G				
	81148A	ZoneMaster ZE/ZC/ZB Module 120V N-G	1	N-G				
ZEM277Y/ZE277Y	81146A	ZoneMaster ZE/ZC Module 277V L-N	3	L-N				
	81147A	ZoneMaster ZE/ZC Module 277V L-G	3	L-G				
	81149A	ZoneMaster ZE/ZC/ZB Module 277V N-G	1	N-G				
ZCM120T/ZC120T	81144A	ZoneMaster ZE/ZC Module 120V L-N	2	L-N				
	81145A	ZoneMaster ZE/ZC Module 120V L-G	2	L-G				
	81148A	ZoneMaster ZE/ZC/ZB Module 120V N-G	1	N-G				
ZCM120Y/ZC120Y	81144A	ZoneMaster ZE/ZC Module 120V L-N	3	L-N				
	81145A	ZoneMaster ZE/ZC Module 120V L-G	3	L-G				
	81148A	ZoneMaster ZE/ZC/ZB Module 120V N-G	1	N-G				
ZCM277Y/ZC277Y	81146A	ZoneMaster ZE/ZC Module 277V L-N	3	L-N				
	81147A	ZoneMaster ZE/ZC Module 277V L-G	3	L-G				
	81149A	ZoneMaster ZE/ZC/ZB Module 277V N-G	1	N-G				
ZBM120T/ZB120T	81148A	ZoneMaster ZE/ZC/ZB Module 120V N-G	1	N-G				
	81173A	ZoneMaster ZB Module 120V L-N/L-G	2	L-N/L-G				
ZBM120Y/ZB120Y	81148A	ZoneMaster ZE/ZC/ZB Module 120V N-G	1	N-G				
	81173A	ZoneMaster ZB Module 120V L-N/L-G	3	L-N/L-G				
ZBM277Y/ZB277Y	81149A	ZoneMaster ZE/ZC/ZB Module 277V N-G	1	N-G				
	81174A	ZoneMaster ZB Module 277V L-N/L-G	3	L-N/L-G				
ZA120T	81170A	ZoneSentinel ZA Module 120V L-N/L-G	1	L-N/L-G				
	81175A	ZoneSentinel ZA Module 120V L-N/N-G	1	L-N/N-G				
ZA120Y	81170A	ZoneSentinel ZA Module 120V L-N/L-G	1	L-N/L-G				
	81173A	ZoneSentinel ZA Module 120V L-N/N-G	1	L-N/N-G				
ZA277Y	81171A	ZoneSentinel ZA Module 277V L-N/L-G	1	L-N/L-G				
	81174A	ZoneSentinel ZA Module 277V L-N/N-G	1	L-N/N-G				

NOTES



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NOTES

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