



RPM Series

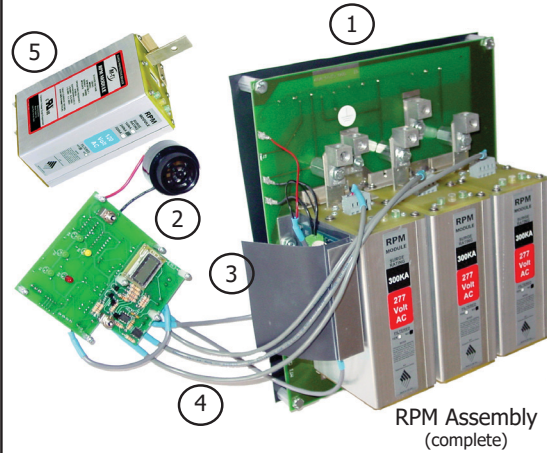
Modular Kit Assembly Commercial & Industrial Surge Protection Devices

RPM Modules are Surge Protection Devices capable of providing **heavy-duty surge protection and filtering for industrial and commercial sites** against the harmful effects of transient energies induced on AC power lines.

The RPM's unique construction allows it to deliver **low clamping voltages** while safely handling large surge currents. It can be incorporated into an OEM or VAR protection design and provided the end enclosure is listed it will maintain its Recognized status as a SPD device. One module per phase is required.

Configured for parallel installation, units cost nothing to maintain and are **easy to upgrade while in service**. All models have a 100kA rms symmetrical fault current rating. The surge suppression function of the RPM is provided by large diameter MOV and "smart sensing" technology. Each module is capable of providing L-N, L-G and N-G protection modes.

On-board **LED indicators** continuously **monitor the operational status** of each protection mode (5 - 10 VDC Supply Required). Additional safety features include color-coded labels and keyed mounting by voltage application. Filtering & remote monitor options available.



Product Specifications	
Surge Current Ratings	100, 200, 300kA per phase
Short Circuit Rating	100kA RMS Symmetrical Amps
Fusing	Coordinated Surge and Thermal
Operating Frequency	50/60 Hz
Operating Temperature	-40° to +140°F (-40° to +60°C)
Diagnostics	LED, Surge Counter, Alarm
Safety Standards (Type 4 SPD)	UL 1449 (most current)
Warranty	15 Year Product Warranty

Dimensions & Weight	
RPM Module:	6.582" x 4.256" x 2.784" (2.255 lb)
RPM Assembly:	12.25" x 10.25" x 5.487" (9.434 lb)

RPM Assembly Parts	
1 -	Mounting Board
2 -	Front Panel Diagnostics
3 -	Power Supply
4 -	Cable Assembly
5 -	RPM Modules

RPM Modules			VPR		
Model Number	Service Voltage	MCOV	L - N	L - G	N - G
RPMXXX/120-W-#-1	120 Volt, Single Phase	150 Vac	600V	600V	500V
RPMXXX/240-D-0-1	240 Volt, Single Phase, Delta	320 Vac	N/A	1000V	N/A
RPMXXX/220-W-#-1	220 Volt, Single Phase	320 Vac	1000V	1000V	1000V
RPMXXX/230-W-#-1	230 Volt, Single Phase	320 Vac	1000V	1000V	1000V
RPMXXX/240-W-#-1	240 Volt, Single Phase, Wye	320 Vac	1000V	1000V	1000V
RPMXXX/277-W-#-1	277 Volt, Single Phase	320 Vac	1000V	1000V	1000V
RPMXXX/480-D-0-1	480 Volt, Single Phase	520 Vac	N/A	1800V	N/A
RPM Kit Assembly					
RPMKITXXX/120-10-#-1/	120 Volt, Single Phase	150 Vac	700V	700V	700V
RPMKITXXX/120-SP-#-1/	120/240 Volt, Split Phase	150 Vac	700V	700V	700V
RPMKITXXX/120-3W-#-1/	120/208 Volt, 3 Phase Wye	150 Vac	700V	700V	700V
RPMKITXXX/120-3H-#-1/	120/240 Volt, 3 Phase HL Delta	150/320 Vac	700/1000V	700/1000V	700V
RPMKITXXX/240-3D-0-1/	240 Volt, 3 Phase Delta	320 Vac	N/A	1000V	N/A
RPMKITXXX/220-3W-#-1/	220/380 Volt, 3 Phase Wye	320 Vac	1000V	1000V	1000V
RPMKITXXX/230-3W-#-1/	230/400 Volt, 3 Phase Wye	320 Vac	1000V	1000V	1000V
RPMKITXXX/240-3W-#-1/	240/415 Volt, 3 Phase Wye	320 Vac	1000V	1000V	1000V
RPMKITXXX/277-3W-#-1/	277/480 Volt, 3 Phase Wye	320 Vac	1000V	1000V	1000V
RPMKITXXX/480-3D-0-1/	480 Volt, 3 Phase Delta	520 Vac	N/A	1800V	N/A

RPM MODULE NOTE: Replace XXX with desired kA rating, per phase: 100 for 100kA, 200 for 200kA or 300 for 300kA. Replace # with F if filtering is required (WYE Models Only).

RPM KIT NOTE: Replace XXX with desired kA rating, per phase: 100 for 100kA, 200 for 200kA or 300 for 300kA. Replace # with F if filtering is required (WYE Models Only). Place an /RM at the end of the part number for the Remote Monitoring option.

All product dimensions provided are ± 0.125

Meter Treater Inc.: 1349 South Killian Drive • Lake Park, FL 33403

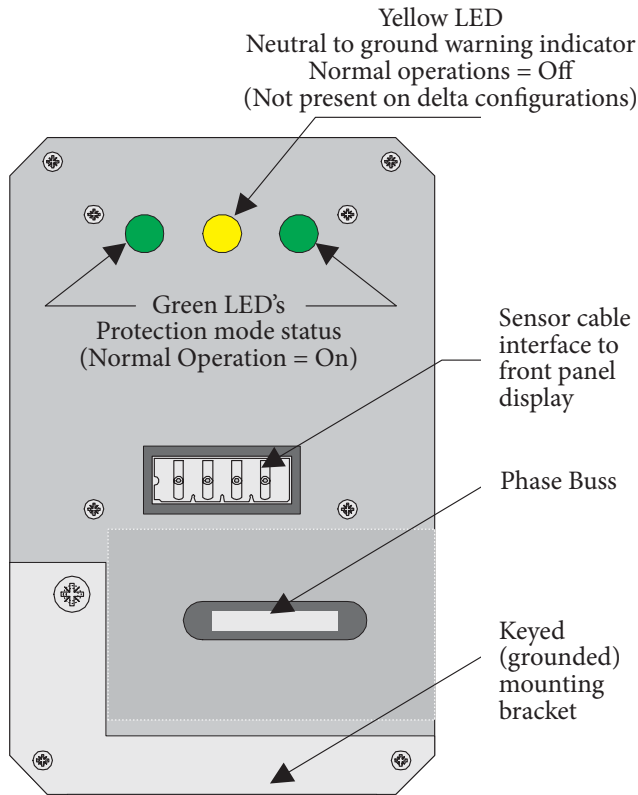
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Website: www.metertreater.com

RPM REMOVAL & REPLACEMENT

1. Make sure the power has been turned off to the MPT unit. Never work on the SPD unit while energized.
2. Disconnect the sensor cable from the RPM module (Ø Side end cap)
3. Remove the 1/4-20 bolts securing the RPM module to the phase and neutral tabs. One bolt at each end of the module. Also remove the compression lug.
4. Remove the (2) #6 screws (1 at each end of the unit) securing the RPM to the back plane PC board.
5. Remove the module from the MPT unit.
6. To mount the replacement module, reverse steps 4,3, and 2. Remember to reinstall the compression lug.
7. Close the MPT door and reconnect power.



WARRANTY INFORMATION

Meter-Treater, Inc. (MTI) warrants all RPM Series models to be free from defects, and will at our option repair or replace the product should it fail within fifteen (15) (residential installations) years from the first date of shipment. This warranty is limited to defects in workmanship or materials, and does not cover customer damage, abuse or unauthorized modification. If this product fails or does not perform as specified, your sole recourse shall be repair or replacement as described above. Under no condition shall MTI be liable for any damages incurred by the use of this product. Damages include, but are not limited to, the following: lost profits, lost savings and incidental or consequential damages arising from the use of or inability to use this product. MTI specifically disclaims all other warranties, expressed or implied, and the installation or use of this product shall be deemed an acceptance of these terms by the user.

WARRANTY RETURNS

All warranty and non-warranty repairs must be returned freight prepaid and insured to MTI. All returns must have a Return Authorization (RA) number on the outside of the shipping container. This number may be obtained from MTI Warranty Department (800) 342-6890. Products returned without an RA number will not be accepted.

IF UNIT(S) ARE RECEIVED DAMAGED,
NOTIFY THE SHIPPING COMPANY
IMMEDIATELY. RETAIN ALL SHIPPING
CONTAINERS AND PACKING MATERIALS FOR
INSPECTION.

Please Note:
There are no user serviceable parts inside.



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RPM Series

USER MANUAL AND INSTALLATION GUIDE

RECOGNIZED
COMPONENT



Intertek



COMMERCIAL INSTALLATIONS

SURGE PROTECTION DEVICES FOR
AC POWER APPLICATIONS

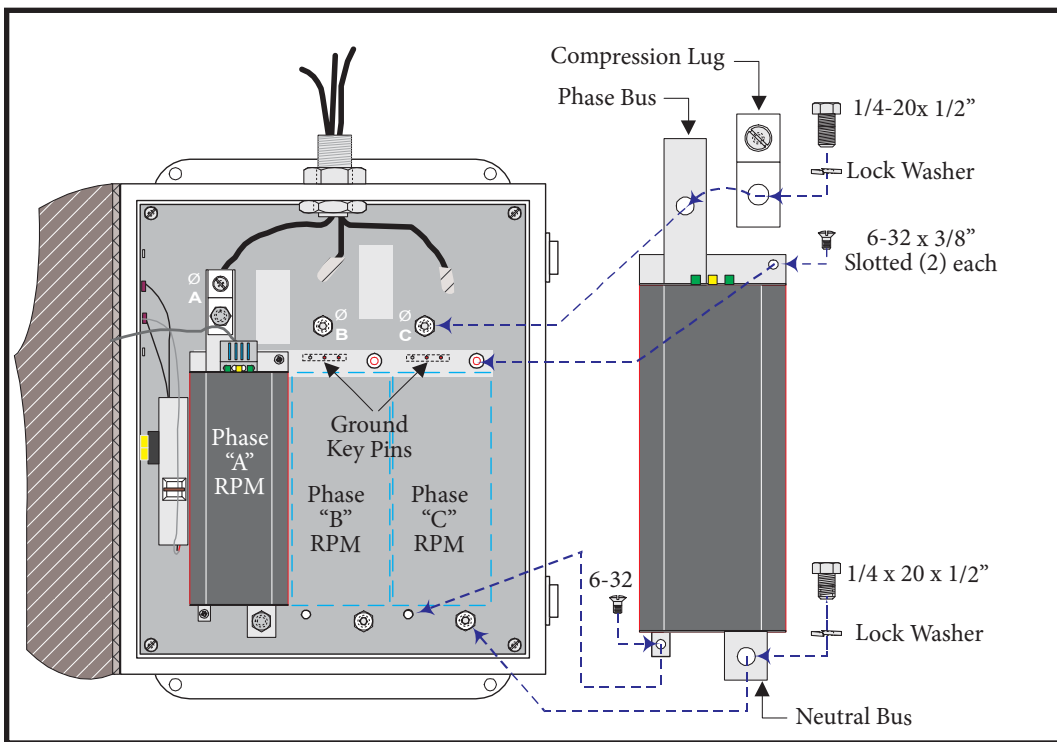


Figure 1: Installation Layout
 The design of the RPM modules and their connection method to the back plane PC board make it physically impossible to install them against their proper polarity.

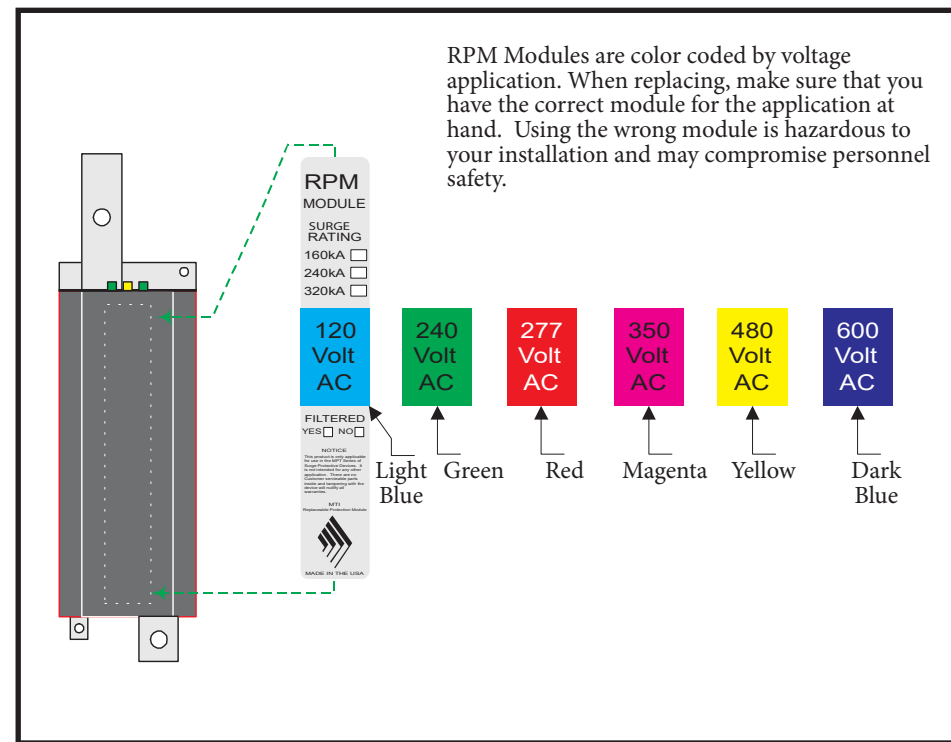


Figure 2: Color Coded Application Labels

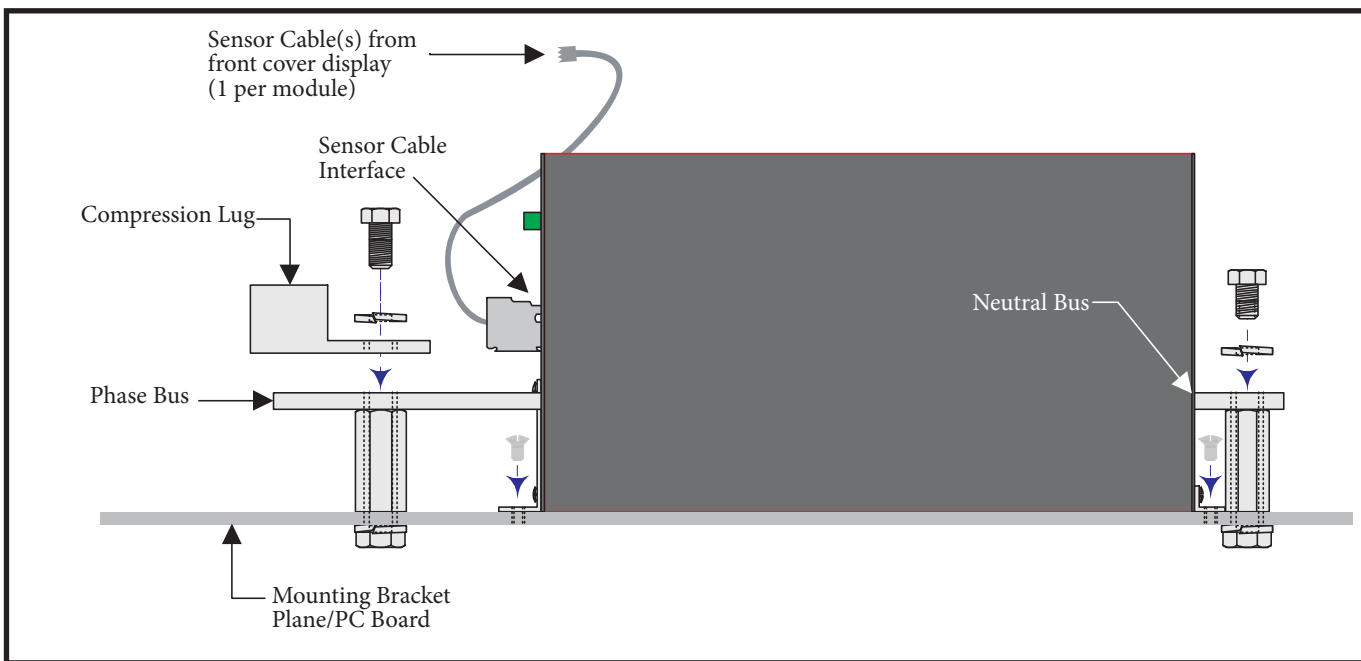


Figure 3: Installation Layout (Side View)

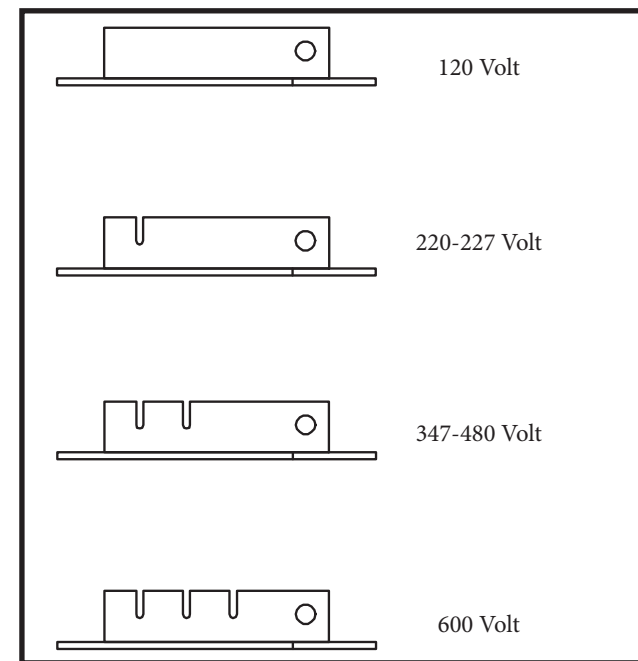


Figure 4: Ground Keyed Application Matrix
 Keyed grounding tabs help to prevent the misapplication of a module to incorrect voltages.