

GreenMAX Relay System Cabinet

Cat. Nos. R16TC-100, R32TC-100, R48TC-100

For use with GreenMAX Relay Systems

LEVITON®

PK-93838-10-00-0B

INSTALLATION

English

WARNINGS AND CAUTIONS:

- To be installed and/or used in accordance with electrical codes and regulations.
- Installation and maintenance of this unit and the associated components requires an electrician.
- All relays must be installed on a Relay Insert Panel in a Leviton GreenMAX Relay Systems cabinet.
- The covers and lower ventilation plate must be in place when any circuit in the cabinet is energized.
- A relay or filler module must be installed in every relay location when any circuit in the cabinet is energized.

RATINGS:

- For relay ratings, see the Installation Sheet provided with either the Relay Insert Panels or the Individual relay.
- The power requirement of the Command Module is: 100-277VAC 50/60Hz
- The load rating of the Power Supply of the Command Module is: 70W @ 24VDC +/-10%
- This component is suitable for NEMA1 applications only (indoor use/not water or weather resistant).

To Install

MOUNT CABINET

1. **WARNING:** TO AVOID FIRE, SHOCK, OR DEATH; **TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT THE POWER IS OFF BEFORE WIRING!**
2. Securely mount enclosure to wall using fasteners appropriate for wall type.
NOTE: Mounting holes are provided in the enclosure, the upper holes are keyhole slots to facilitate easy hanging. Any field drilled mounting holes should be confined to the wire-way areas so that they do not obstruct the installation of the Relay Insert Panels or the Command Module.
3. Install all conduit runs and pull all lighting circuit and power wiring.
NOTE: It is recommended that all wire be pulled prior to installing the Command Module and Relay Insert Panels. This will prevent damage to the electrical components.

INSTALL COMMAND MODULE

1. Install the Command Module by sliding the slots on the bottom of the Command Module over the mounting tabs of the cabinet. Pass the Power Supply leads through the grommet to the power wiring area while installing. The Command Module should be free to rotate forward and back without any obstruction. Fasten the Command Module in place with the two screws provided (see Detail on page 2).
2. Connect the incoming Line, Neutral, and Ground wires of the designated power circuit, to the cabinet electronics.
NOTE: This connection should be made in the power wiring area provided. If the source of power requires that this area must be separated from other circuit conductors, install the metal partitions provided. The Neutral connection must also include the Neutral wire from the uppermost Relay Insert Panel. A jumper is provided to extend this conductor from the Relay distribution spine to the connection point.
3. Connect the Equipment Grounding conductor to the grounding location provided adjacent to the system power supply. Use the ground screw provided for this purpose.
4. Using Cat 5 (or better) cables and RJ45 connectors, connect the Power Supply to both the MPU and the Low Voltage input board using the designated ports.
NOTE: If Low Voltage inputs are required, make these connections according to the diagrams provided for the specific input type. To aid this process, remove the terminal blocks by pulling the green block straight out and away from the module. Provide enough cable length to allow the unobstructed movement of the Command Module.

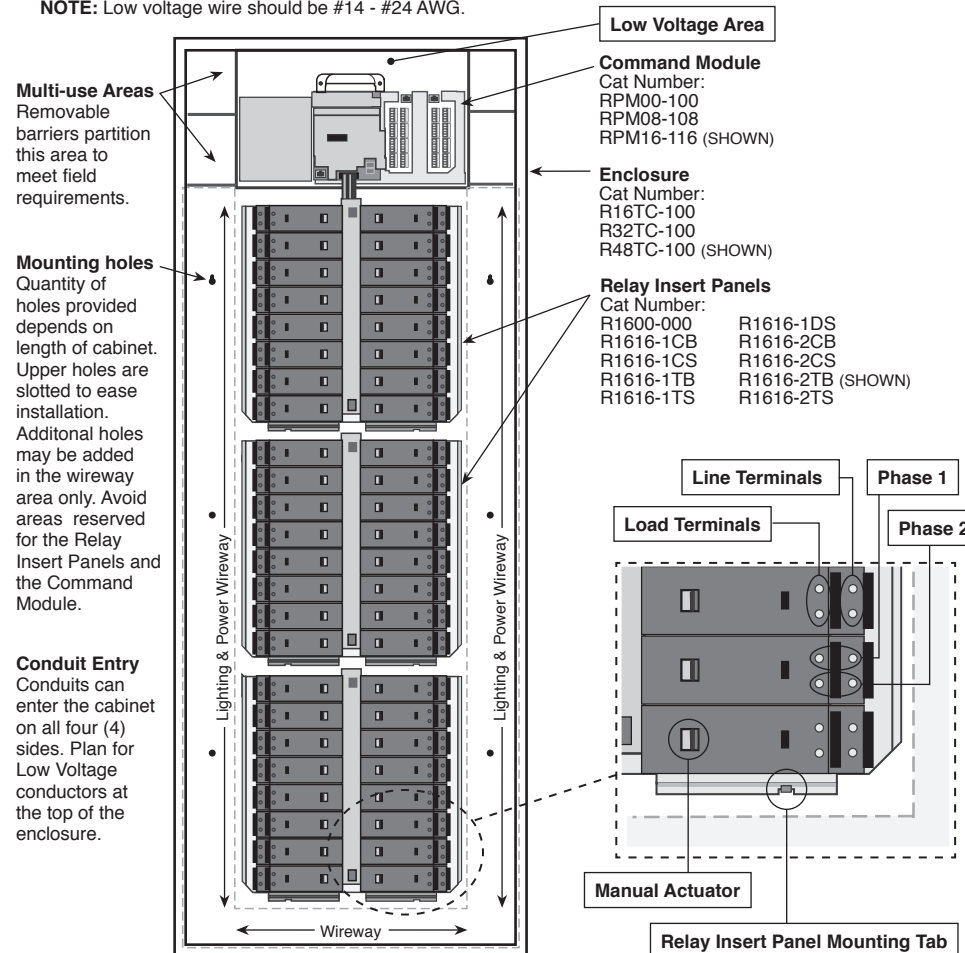
INSTALL RELAY INSERT PANEL

1. Position Relay Insert Panel on the locating tabs of the cabinet and fasten in place with the two mounting screws provided at the top of the panel. Plug the ribbon cable into the Command Module. The Neutral jumper must be extended to make a connection with the Power Supply neutral and the panel feed. Install relays or filler modules in all locations.
2. Connect Line and Load to the relays according to the panel schedule provided in the document package.
NOTE: Relay line and load terminals are suitable for wire sizes #10 to #14 AWG Copper.

3. To test circuit, turn circuit breaker OFF, use the manual actuator handle to turn the relay to the Closed or ON position and then turn circuit Breaker ON. This prevents damage to the relay if the circuit is shorted.
NOTE: Individual relays can be relocated or added by aligning and inserting tabs on the base of the relay in the slots provided in the back-plate. While inserted, slide the relay toward the center until completely engaged.

WIRE LOW VOLTAGE INPUT CARD

1. Wire Low Voltage wiring according to the device wiring diagrams.
NOTE: Low Voltage wiring should be confined to the designated areas at the top of the enclosure. LumaCAN wiring is interconnected with Cat5 (or better) cable and RJ45 connectors. All cables should be tested and verified for proper operation before being connected to any components.
NOTE: The area at the top left corner of the enclosure can be used for either Low Voltage or High Voltage wiring. A metal barrier is provided to segregate Lighting/ Power Wiring and Low Voltage wiring. The barrier can be relocated as necessary.
NOTE: Low voltage wire should be #14 - #24 AWG.



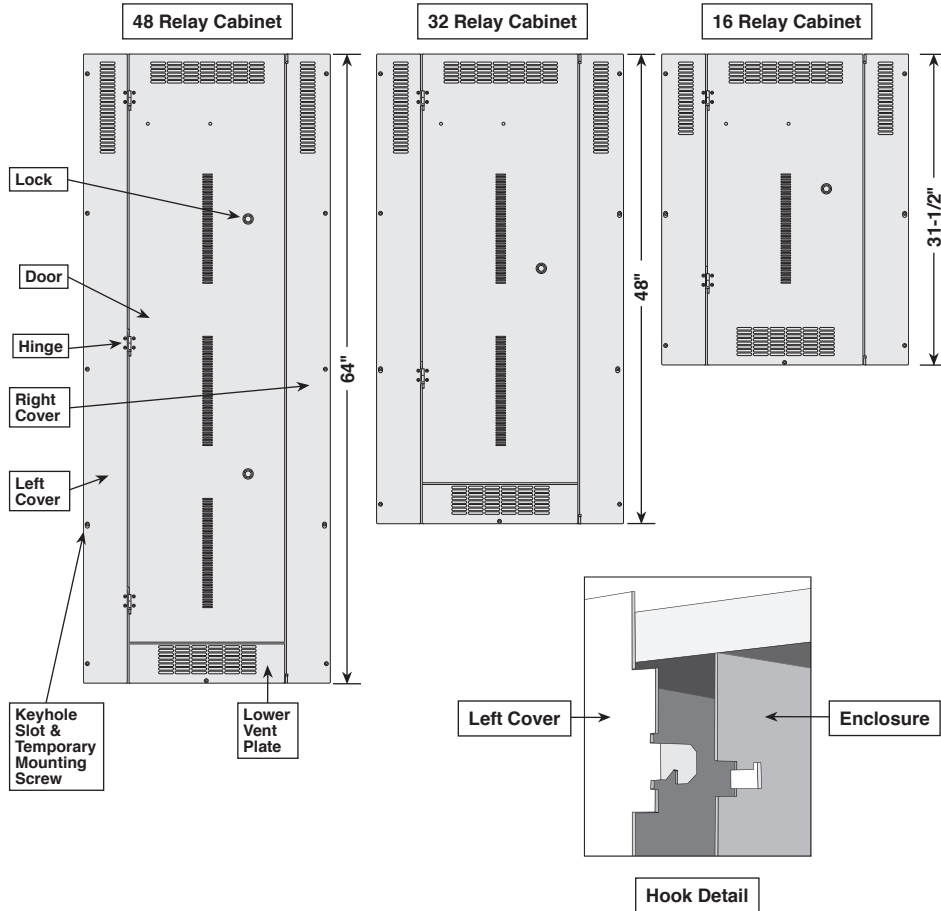
WEB VERSION

INSTALL COVERS AND DOORS

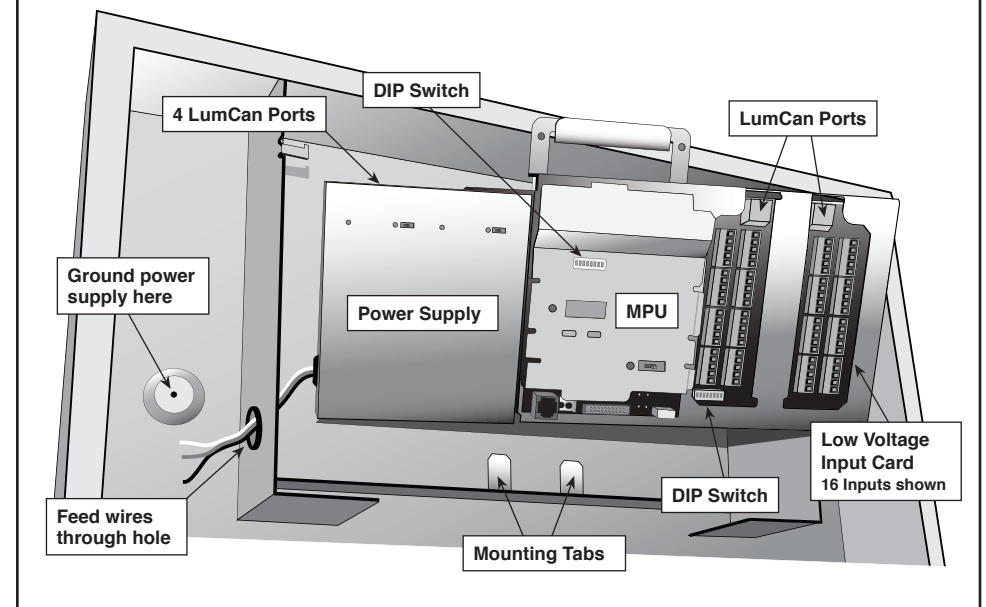
NOTE: The Cover and Door assembly consists of four components; lower vent plate, left cover, right cover, and the door.

NOTE: The covers and lower vent plate must be in place when any circuit in the cabinet is energized.

- To install the left and right covers, start a mounting screw in the **second from the bottom** screw hole on the cabinet flange. Do not completely tighten screw but leave enough space for the thickness of the cover. Locate the upper mounting hook on the cover and the corresponding tab on the enclosure. Locate the keyhole slot at the **second from the bottom** location. Align both the hook and the keyhole slot with their mating features of the cabinet and slide in place. **See Hook Detail.**
- Install all mounting screws provided to permanently fasten the covers in place.
- Install the lower ventilation panel by sliding mating tabs of the left and right covers through the slots provided in the ventilation plate. Lower the ventilation plate into place and fasten with mounting screws.
- Install the door by sliding the halves of the hinges together. Hang the door on one hinge pin at a time, the pins are different lengths to facilitate easy assembly.



COMMAND MODULE DETAIL



DIP SWITCH SETTINGS

Set the ID Address of the Command Module and Low Voltage Input Card - Examples shown below

	ID 1	ID 2	ID 3	ID 4	ID 5	ID 6	ID 38	ID 86
1	NO	NO	NO	NO	NO	NO	NO	NO
2	NO	NO	NO	NO	NO	NO	NO	NO
4	NO	NO	NO	NO	NO	NO	NO	NO
8	NO	NO	NO	NO	NO	NO	NO	NO
16	NO	NO	NO	NO	NO	NO	NO	NO
32	NO	NO	NO	NO	NO	NO	NO	NO
64	NO	NO	NO	NO	NO	NO	NO	NO
128	NO	NO	NO	NO	NO	NO	NO	NO

Switch Values

ID Address Value = Sum of Switch Values
ID 86 = 2+4+16+64

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LIMITED 10 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for ten years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option, if within such ten year period the product is returned prepaid, with proof of purchase date, and a description of the problem to Leviton Mfg. Co., Inc. 201 North Service Road, Melville, N.Y. 11747, U.S.A. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. **There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose,** but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to ten years. **Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation.** The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

* 10 year warranty on relays. 2 year warranty on all other components

For Technical Assistance Call: 1-800-959-6004 (U.S.A. Only)
www.leviton.com

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WEB VERSION