

RMS-400



POWER SUPPLY & MAINFRAME

INSTRUCTION BOOK

IB1221-01

SPECIFICATIONS

Includes RMS-400, PS-400, and RMS-400 SPLIT BUSS.

The RMS-400 is a slide card mainframe for mounting FM SYSTEMS, INC. 400 series equipment. Up to nine circuit board modules may be accommodated (eight in the RMS-400 SPLIT BUSS). These modules may be readily installed in the field with common hand tools.

MECHANICAL: 19.00"W X 5.25"H X 10.50" D.

CAPACITY: Up to Nine FM SYSTEMS, INC. standard circuit board modules, each 4.87" H X 9.87" D X 2" W.

INPUT POWER: The PS-400 Power Supply Card uses a 24VAC 40VA/50VA power cube as a power source. Two power cubes may be connected for redundant operation or when more power is needed.

OUTPUT POWER: The PS-400 Power Supply Card distributes +/- 12 VDC to each card in the mainframe via the RMS-400 buss bar. The RMS-400 SPLIT BUSS mainframe has two PS 400 Power Supply Cards for higher current applications. Some FM SYSTEMS products require the RMS-400 SPLIT BUSS mainframe.

CONNECTORS: Screw terminal power connectors on the rear panel are used for both primary and secondary 24VAC power cube supplies. All other connectors are accessible on the rear panel, provided as an integral part of the circuit board modules, see individual specification sheets for more information.

WEIGHT: RMS-400 with PS-400 Power Supply 8 lbs.

POWER SUPPLY INSTALLATION

The RMS-400 comes equipped with a PS-400 power supply card. The PS-400 card has auto-reset fuses on both primary and secondary power inputs to prevent overload and protect the system from short circuits. The auto-reset fuses will open if the allowable current is over-ranged or the power supply receives a short circuit for any reason. The auto-reset fuses will re-set if the load is briefly removed from the power supply.

The RMS-400 is supplied with two 40VA/50VA 24VAC power cubes. One or both cubes can be connected to the PS-400 power conditioning card. Wire one power cube to the primary input on the PS-400. The mainframe will operate with one power supply cube. If redundant power supplies are desired then wire the second power cube to the secondary power input on the PS-400. In any case dual power supply use is suggested to provide a redundant power supply.

An RMS-400 SPLIT BUSS mainframe uses a minimum of two 50VA 24VAC power supplies. For redundant operation you can connect two 50VA power supplies to each PS-400 input card.

MODULE CARD INSTALLATION

1. Please read the instruction book that accompanies each product.
2. Select one of the un-used nine positions to be occupied by the new circuit board module.
3. Remove the blank label in that position by peeling it off of the front panel. Peel the label slowly to remove all of the label and adhesive. Any remaining adhesive may be removed by rubbing the surface with your thumb. **WARNING DO NOT USE SOLVENTS TO REMOVE THE LABEL ADHESIVE.** The solvent could damage the equipment cards or cause a fire.
4. Peel the backing off of the new label and apply it to the front panel of the RMS-400 rack in the position of the new card. Align the new label with the screw head in the hole in the lower right hand corner of the label, then align the center thumbscrew with the clearance hole in the front panel. This should cause the label to be straight and vertical. When the label is in place press firmly the secure the label.
5. Then remove the thumb-screw retainer from the product card, it is located at the front of the card and is removed by rotating the knob counter-clock-wise.
6. Select any and all product options on the specific card, (See Instructions for individual product).
7. Next slide the card into the card guides at the rear of the RMS-400. Be sure that the notch in the circuit card is facing forward and down. Push the card all the way to the front of the rack until it stops. **DO NOT APPLY EXCESSIVE FORCE TO THE CARD.**
8. Insert the thumb-screw that was removed in step 5 while rotating it in a clock-wise direction. When it begins to thread into the card, continue until it is finger tight. **CAUTION TIGHT BY HAND ONLY, DO NOT USE TOOLS TO TIGHTEN THE THUMB-SCREW. OVER TIGHTENING WILL DAMAGE THE CIRCUIT CARD.**
9. Attach any cables or wires necessary for operation (see the instruction book for the product being installed).

Most circuit board modules have several adjustments which are carefully factory set with precision instruments for optimum performance. Change only those which must be adjusted, some controls when mis-adjusted produce little change under normal operating conditions, but can seriously reduce the ability of the unit to function correctly under other conditions which may be encountered. Therefore, if you must adjust a control, place a mark on it before moving it, so that it may be returned to its original setting with reasonable accuracy.

If you have any questions regarding FM SYSTEMS, INC. products, please contact our engineering department at 800-235-6960 or fax your questions to 714-979-0913, we will call you back immediately.