

SAM400



(Pictured with 400 series card installed)

400 SERIES STAND ALONE MOUNT



POWER SUPPLY & MAINFRAME

INSTRUCTION BOOK

IB6368-01

MECHANICAL

SPECIFICATIONS

Width	2.62"
Height	6.25"
Depth	10.25"
Material	Black ABS
Card Slots	One Card Only
Mounting	Vertical or Horizontal

ELECTRICAL

Input Voltage	24 VDC
Input Current	300 mA (typical)
Circuit Protection	Auto-Reset (PTC)
Output Voltage	+/- 12 VDC
Output Current	300 mA (typical)

The SAM400 is a mainframe and power supply for mounting one FM SYSTEMS, INC. 400 series equipment card. This mount will hold any one of the 400 series cards. These modules may be readily installed in the field with common hand tools.

MECHANICAL: 2.62"W X 6.25"H X 10.25" D.

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

INPUT POWER: The SAM400 Power Supply Card uses a 24VDC 350mA power cube as a power source.

OUTPUT POWER: The SAM400 Power Supply Card distributes +/- 12 VDC to the card in the mainframe via the pin power connector.

CONNECTORS: The power input connector is a 5.5mm X 2.5mm barrel connector that plugs into the rear panel. All other connectors are accessible from the rear panel and are an integral part of the circuit board modules, see individual card specification sheets for more information.

WEIGHT: SAM400 with card module installed 3 lbs.

POWER SUPPLY INSTALLATION

The SAM400 comes equipped with a power supply card. The power supply card has auto-reset fuses on both positive and negative 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.

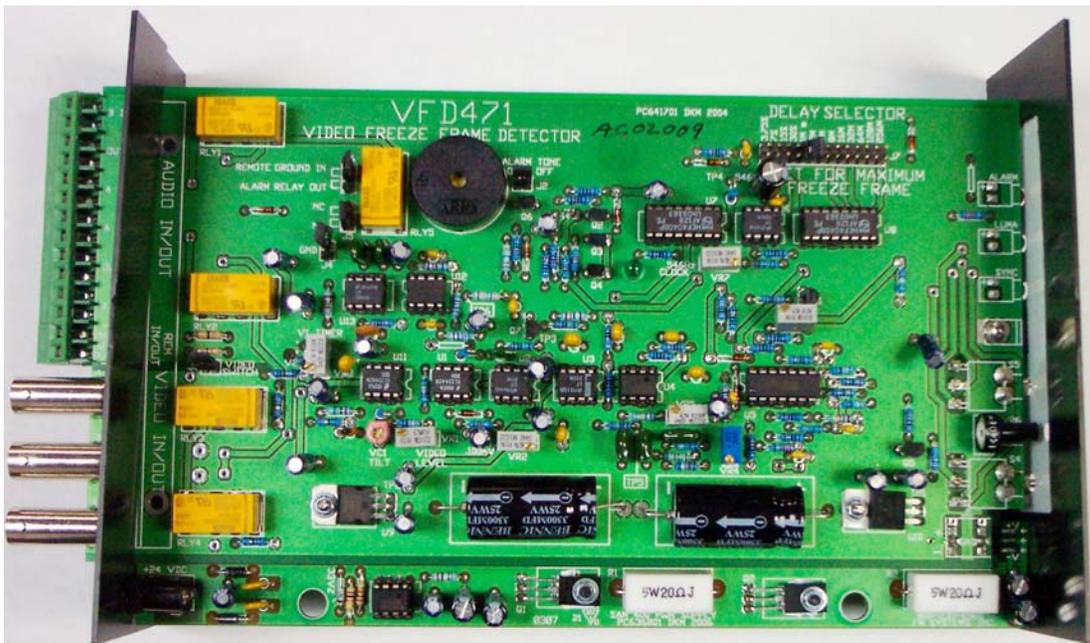
The SAM400 is supplied with a 24VDC 350mA power cube. If a different power supply is used the supply must be insulated from ground on both the negative and positive side of the power source.

Warning: neither the positive nor the negative power supply input may be grounded!

MODULE CARD INSTALLATION

1. Please read the instruction book that accompanies each product.
2. Peel the backing off of the new product label and apply it to the textured side of the front panel of the RMS-400 rack. The smooth side of the label faces in. The front panel is the one that has a large rectangular cut-out and a small 1/8" hole in the middle. Align the new label with the 1/8" hole in the label and the 1/8" hole in front panel in alignment. Before pressing down make sure that the label is straight and parallel to the outside edges. This should cause the label to be straight and vertical. When the label is in place press firmly to secure the label.
3. 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.
4. Select any and all product options on the specific card, (See Instructions for individual product).
5. Place the circuit card on a table so that you are facing the rear connectors with the component side facing up. Next put the rear panel onto the back of the circuit card with the textured side facing out by sliding the card through the open slot on the rear panel from left to right. The power supply plug hole should be above the circuit card slot if the textured side is facing out.
6. Next attach the front panel with the label to the front of the circuit card. Match up the controls and indicators with the label.
7. Insert the thumb-screw that was removed in step 3 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 BOW THE FRONT PANEL AND COULD DAMAGE IT.
8. Locate the power connector on the product circuit card. If you are facing the rear of the card with the components facing up, it will be in the upper right hand corner of the card in front of the notch in the pc board. Place the long slender power supply pc board next to the circuit card on the right hand side with the 6 gold pins near the notch.
9. Gently bend the right hand side of the front panel forward until you can connect the 6 gold pins into the power connector on the main PC board. Make certain that all 6 pins are mated into the power connector on the main PC board. When the pins are correctly connected the two pc boards will be parallel.
10. When both front and rear panels are mounted and the power supply is connected hold the front and rear panels and the power supply pc card and lift them into the bottom side of the SAM400 case. The bottom side of the case has 4 screw holes in the outside of the case. Line up the front and rear panels with the vertical slots in the case.

11. When the front and rear panels are seated in the case the power supply PC card will fit onto two plastic stand-offs on the right hand side of the case. They should fit tightly onto the stand-offs. The power supply plug on the rear right hand side should be accessible from the outside of the rear panel.
12. Be sure to set all inside controls and selectable jumpers on the product card before closing the top lid.
13. The top lid has a groove on one side and a notch on the other side. Be sure to align the groove on the top lid with the notch on the bottom lid. Once you have determined the proper way to put on the lid, slide the lid down onto the bottom lid then flip the unit over and install the 4 screws. Do not over tighten the 4 screws or damage to the case may result.
14. Attach any cables or wires necessary for operation (see the instruction book for the product being installed).
15. Attach the 4 rubber feet on the bottom the case. You may use them the mount the unit vertically or horizontally.



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.