

Ortec 401A(B) Modular System Bin

The ORTEC 401A Modular System Bin provides mounting space for 12 standard module widths of the 8-in.-high type. The 12 corresponding module connectors are provided, with necessary wiring for distribution of all of the standard power supply voltages. The ORTEC 401B Bin is identical except that the standard power supply voltages are distributed to the module connectors through bus bars instead of wires. These power distribution circuits terminate in the standard connector prescribed by TID-20893 (Rev.) for connection to the power supply. A small control panel, not occupying any of the available module space, is located at the right side of the Bin, providing control switch test points, a control switch, and indicator lamps for the power supply. Further description of the 401A(B) Bin is given in the remaining sections of this manual.

SPECIFICATIONS

MECHANICAL TOLERANCES

In accordance with TID-20893 (Rev.) provide for interchangeability of all standard modules.

PANEL DIMENSIONS

Standard Relay Rack, 8 3/4 in. high, 19 in. wide.

DEPTH BEHIND PANEL

Without Power Supply, 10.5 in. (26.6 cm); with 402A Power Supply, 16.0 in. (40.6 cm); with 402H Power Supply, 18.0 in. (45.7 cm).

MODULE CONNECTORS

12 each connectors as specified by TID-20893 (Rev.).

INSTALLED WIRING

All connectors of the 401A are wired in parallel for +6 V, -6 V, +12 V, -12 V, +24 V, -24 V, high-quality power return and 115 V ac, in accordance with TID-20893 (Rev.) pin assignments, with interface connector furnished for connection to power supply as required by TID-20893 (Rev.). The 401B is equipped with laminated bus bars on the +6 V, -6 V, +12 V, -12 V, +24 V, -24 V (AWG #14 equivalent) and for the power ground return (AWG #10 equivalent).

CONSTRUCTION

Extruded aluminum side members. Die-cast aluminum top and bottom members containing module guides and cadmium-plated steel rear connector plate, Iridite or cadmium finished, with convenience handles on front panel mounting members.

WEIGHT

28 lb net with 402A Power Supply; shipping weight 35 lb; 36 lb net with 402H Power Supply; shipping weight 43 lb.

OPERATING INSTRUCTIONS

CONTROL PANEL FUNCTIONS

ON-OFF

Switch interrupts both sides of the input power line.

POWER

Pilot lamp indicates that ac input power is being supplied to the power transformer primary. Either a blown fuse or a temperature cutout will extinguish this lamp.

TEMP

Warning pilot lamp is illuminated if the Power Supply temperature rises to within ~20degC of the maximum safe operating temperature. When the maximum safe temperature is reached, an internal cutout in the Power Supply removes power and neither lamp will be illuminated.

TEST JACKS

Located on the panel allow convenient checking of the Power Supply voltages from the front panel without disassembly of the supply

POWER SUPPLY LIMITATIONS

The available current at each voltage is dependent on the Power Supply. Since the requirements of TID-20893 (Rev.) have been changed from time to time, the actual capability of any given power supply will depend on its date of manufacture. The instruction manual for the particular power supply in use should be consulted.

The power requirements of individual modules are stated on their front panels. The user should verify that the Power Supply capability is not exceeded in any given system in one bin. Note that a system composed entirely of ORTEC modules will not require this verification, since each ORTEC module uses no more power than its proportional share based on panel space occupancy in the Bin.

[Up to a higher level directory](#) | | [For more information](#)