

PRECISION DC POWER SOURCE MODEL 2005

SECTION 1

GENERAL DESCRIPTION

1-1. DESCRIPTION

The Model 2005 is a precision DC power source designed to supply an extremely stable 0 to 20 volt, 0 to 500 milliamperes output. The instrument combines the accuracy of a precision calibrator with the power capability of a general-purpose regulated supply.

Two dual, concentric decade switches provide a digital readout of the selected output voltage to within 0.1% +1 millivolt of the selected value. A 1-millivolt range, single-turn potentiometer permits interpolation of the last place. This potentiometer has a resolution of 10 microvolts. A toggle switch selects the range of the dial readout; either from 0 to 10 volts, or from 10 to 20 volts.

The output voltage of the supply may be remotely programmed with the same accuracy, using an external resistance. The supply also includes provisions for remote sensing of the output voltage at the load.

Compact and light, the power source is self-contained in a portable housing designed for bench use. The modular construction of the Model 2005 makes it suitable for rack mounting. Panel adapters are available for mounting one or two units in a standard 19-inch rack having a panel height of 5 1/4 inches.

1-2. ELECTRICAL SPECIFICATIONS

Refer to Table 1 for a complete list of electrical specifications.

1-3. MECHANICAL SPECIFICATIONS

a. Dimensions : 8-3/8 inches wide by 4-3/4 inches high by 8-15/16 inches deep behind the front panel.

b. Weight : 9 pounds.

c. Finish : The panel is finished in brushed aluminum and has etched black lettering. The housing is finished in blue-gray vinyl enamel. The chassis and bottom plate are gold iridite.