

Series 400 Laboratory Accessories

Educational Training Equipment for the 21st Century

Bulletin 427C

MODEL HBT-450 Bench Turret

The Hampden **MODEL HBT-450** Bench Turret is constructed of #14 gauge steel, complete with circuit breaker switch and pilot light plus four external and four internal 120-volt AC outlets. Shown with typical eight module arrangement of power supplies and meters. Locking covers are available.



MODEL HBT-450

Dimensions: 9-1/2" H x 39-1/2" W x 9-1/2" D

Shipping weight (as shown): 100 lbs.

(Shown with optional instrument panels)

MODEL HBT-466 DC Volt-Ammeter

The **MODEL HBT-466** has a 3-1/2" mirrored scale and a taut-band movement. It is capable of the simultaneous monitoring of voltage and current in separate parts of a circuit without changing connections. The unit is protected by means of diodes and a thermal magnetic circuit breaker. The meter may be housed in the Hampden **MODEL HBT-450** Turret shown above or in a portable housing as shown at right.

Voltage ranges;

0-3/10/30/100/300 volts

Current ranges:

0-0.1/1/10 mA; 0-0.1/1/3 A

Sensitivity:

Voltage ranges: 10,000 ohms/volt

Accuracy:

±2% of full scale deflection

Accessories: Furnished complete with:

2-sets of 2 alligator-banana leads (4 ft, red and black)



MODEL HBT-450

Dimensions: 7" H x 5" W x 4-3/4" D

Shipping weight: 5 lbs.

All Hampden units are available for operation at any voltage or frequency

Hampden
ENGINEERING CORPORATION

102615

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Bulletin 427-1C

Purpose

The **MODEL HBT-473-B** supplies variable AC and DC power to electronics laboratories work stations for the performance of educational experiments, particularly those involving transistors and other solid state devices.

Description

The **MODEL HBT-473-B** AC/DC Power Supply contains two AC supplies, one a fixed 6.3 volt, and the other a dual-range variable supply; plus two independently variable DC supplies, one of which has an adjustable current limit. Output receptacles, except the 0-120V single receptacle, are color coded Hampden HR-1S type. The **MODEL HBT-473-B**, may be enclosed in the **MODEL HBT-450** Turret shown on the other side of this sheet, or in a portable housing shown above. Also available configured on a 6-3/4" H x 18-3/4" W panel for mounting in Hampden Elevated or Low-profile Turrets described in Bulletin 422.

Specifications

Construction

Panel:

#12 gauge steel finished in light blue-gray enamel and black silk-screened nomenclature.

Case:

#14 gauge steel finished in dark gray texture (portable model only).

Variable Voltage and Current Supply

Output:

0-40V DC, 0-0.25 Amp isolated

Ripple:

Less than 1.0mV RMS

Regulation:

0.2% load voltage

line regulation: 0.2% for $\pm 10\%$ line variation

Controls:

Voltage adjust, 0-40V DC, infinite resolution

Protection:

Current limiting adjust, 0-0.25 Amp, infinite resolution.

Variable Voltage Supply

Output:

0-40V DC, 1 amp isolated

Ripple:

Less than 1.0mV

Regulation:

0.2% load voltage

line regulation: 0.2% for $\pm 10\%$ line variation

Control:

Voltage adjust, 0-40V DC, infinite resolution.

Protection:

Current limiting

AC Power Supplies

Output:

0-40V AC at 2A, transformer isolated.

0-120V AC at 1A.

Control:

Voltage adjust, common to both AC supplies.

Protection:

0-40V AC supply, 2A reset type circuit breaker.

0-120V AC supply, 1A reset type circuit breaker.

Filament Supply

Output:

Fixed 6.3V AC at 2A, transformer isolated.

Protection:

2A reset type circuit breaker on transformer secondary.

General

Input:

120VAC, 60Hz, 2A max. through 3-wire #18 neoprene-covered cord. Panel is energized by means of a circuit breaker with pilot light to indicate availability of power.

Output Receptacles:

Hampden HR-1SS Safety socket receptacles color-coded, except 0-120VAC which shall be single receptacle.

Accessories:

Two sets of two (one red and one black) Hampden PC-4S safety cords, 4 ft. long, having a stacking banana plug on one end and a hooded alligator clip on the other end.

Specify Model

MODEL HBT-473-B (Flush)

MODEL HBT-473-B-P (Portable)

HBT-473-B AC/DC Power Supply



MODEL HBT-473-B AC/DC Power Supply in portable case
Dimensions: 7-1/2" H x 9-3/4" W x 9" D
Shipping weight: 25 lbs.

All Hampden units are available for operation at any voltage or frequency

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