

Series 100 Motors and Generators

Educational Training Equipment for the 21st Century

Bulletin 252G

Hampden Mobile Student Experimentation Stations



MODEL HMB-100A
Shipping Weight: 700 lb.



MODEL HMD-100-CM
Shipping Weight: 700 lb.

Purpose

To provide the facilities required to perform experiments with Hampden Series 100 Motors and Generators covered by Hampden Series 100 and 250 Student Manuals. Hampden Mobile Student Experimentation Stations, **Model HMB-100A** and **Model HMD-100-CM** contain power and metering services, an ample work surface, and storage area for experimentation components. These stations may also serve as versatile power and instrument facilities for a wide range of other laboratory experiments.

Physical Characteristics

The base and turret housings of Hampden Student Experiment Stations are constructed of heavy code-gauge steel. The work surfaces are made of antique white plastic Laminate bonded to 1" thick wood core with black plastic edging. The Stations rest on 4" diameter rubber tired swivel casters (two with locking type brakes), permitting them to be located anywhere in the laboratory or rolled into a classroom for demonstration purposes.

Guarantee

Hampden equipment is guaranteed against electrical and mechanical defects for one year from date of acceptance.

The **Model HMB-100A** is 67"H x 60"W x 30"D, with the work surface 37" from the floor. Full-depth steel shelves are partitioned to provide front and back storage area.

The **Model HMD-100-CM** is 64"H x 62"W x 34"D, with the work surface 37" from the floor. Two full-length hinged lockable doors are provided both at the front of the storage area and also at the rear. Stored components rest on woodcore melamine shelves.

Electrical Characteristics

The power turret contains six power supplies, whose ranges are compatible with the requirements of the Series 100 program. Each power supply is equipped with an indicating pilot light, a magnetic circuit breaker to protect against overloads, and 25-ampere color-coded output jacks.

The ratings of the supplies are as follows:

- Fixed 120V.AC, 1 \emptyset , 15A through two duplex receptacles.
- Fixed 120V.AC, 1 \emptyset , 2-wire, 15A
- Fixed 120/208V.AC, 3 \emptyset , 4-wire, 15A
- Variable 140/0-240V.AC, 3 \emptyset , 4-wire, 9A
- Variable 0-150V.DC, 1.0A, isolated, 1% RMS
- Variable 0-125V.DC, 6.0A, isolated, 1% RMS

The metering turret contains all of the instruments provided in the three separate meter panels shown on the reverse side of this sheet.

Both Student Experiment Stations are also available without the metering turret and/or the power turret.

Input power required is 120/208V.AC - 3 \emptyset - 5W - 15A. This unit is provided complete with cords.

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

Hampden
ENGINEERING CORPORATION

082903

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Bulletin 252-1G



MODEL DCVA-100
Dimensions: 8"H x 19"W x 9"D
Shipping weight: 35 lbs.

DCVA-100 DC Meter Panel

Contains one cord set and the following diode-protected meters:

- DC Voltmeter - 0 to 75/150V (2)
- DC Ammeter - 0 to 0.5/1/2.5/5A (2)



MODEL ACVA-100
Dimensions: 8"H x 19"W x 9"D
Shipping weight: 35 lbs.

ACVA-100 AC Meter Panel

Contains one cord set and the following diode-protected meters:

- AC Voltmeter - 0 to 150/300V
- AC Ammeter - 0 to 0.5/2/4/8A (2)



MODEL ACWM-100
Dimensions: 8"H x 19"W x 9"D
Shipping weight: 35 lbs.

ACWM-100 AC Wattmeter

Contains one cord set and two diode-protected AC wattmeters with the following ranges:
0 to 150/300/600/1200W
(150/300 volts; 2/4/8 amps)



MODEL ACVA-DA-100
Dimensions: 8"H x 19"W x 9"D
Shipping weight: 35 lbs.

ACVA-DA-100 AC Digital Meter Panel with 1-5V DC Analog Outputs

Contains one cord set and the following digital meters:

- AC Voltmeter - 0 to 300V AC
- AC Ammeter - 0 to 9.99 (2)

DCVA-DA-100 DC Digital Meter Panel with 1-5V DC Analog Outputs

Contains one cord set and the following digital meters:

- DC Voltmeter - 0 to 200V (2)
- DC Ammeter - 0 to 9.99
- DC Ammeter - 0 to 1.999



MODEL ACWM-100-1
Dimensions: 8"H x 9"W x 7"D
Shipping weight: 20 lbs.

ACWM-100-1 Single AC Wattmeter

Contains one cord set and diode-protected AC wattmeter with the following ranges:
0 to 150/300/600/1200W
(150/300 volts; 2/4/8 amps)

ACWM-DA-100F AC Digital Frequency Wattmeter Panel with 1-5V DC Analog Outputs

Contains one cord set and the following digital meters:

- AC Wattmeter - 0 to 999 watt (2)
- Frequency Meter - 20 to 199.9Hz

ACWM-DA-100 AC Digital Wattmeter Panel with 1-5V DC Analog Outputs

Contains one cord set and the following digital meters:

- AC Wattmeter - 0 to 999 watt (2)

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

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