

DVW1 manual

DVW1 OPERATING INSTRUCTIONS

The DVW1 VOLT/AMP/WATT METER is a precision electronic test instrument. To obtain the maximum benefit from this instrument, please take time to read these instructions. Familiarize yourself with the DVW1, its features and its controls.

FEATURES

- Push button function and range selection
- LCD Display
- Automatic Voltage ranging and indication
- Solid state circuitry for reliable operation
- Grounding type AC input receptacle
- One Year Limited Warranty

SPECIFICATIONS

- Ranges:**
- AC Voltage: 0-200, 300V
 - AC Watts: 0-2000, 6000W
 - AC Amps: 0-20, 25A
 - 0-10 amps continuous operation
 - 20 amps intermittent operation
 - 40 amps momentary operation
- AC Power Cord: 3 wire, 16 AWG, SJ insulation

CONTROLS

Volts Indicator
The DVW1 is designed to operate on either 120VAC or 240VAC. Voltage selection is automatic within the DVW1. The 130 VOLT indicator will light when the DVW1 is connected to a 90 to 130 VAC source. The 250 VOLT indicator will light when the DVW1 is connected, through an appropriate adapter, to a 180 to 250VAC source.

Volts:
When the red VOLTS switch is pushed, the voltage at the DVW1 AC Input Receptacle will be indicated on the LCD Display.

Amps: When the red AMPS switch is pushed, the actual current drawn by the appliance will be indicated on the LCD Display.

OPERATION

Caution: The DVW1 is supplied with a 3 wire grounding type plug. For your safety, assure that the AC input receptacle into which the DVW1 is plugged is properly grounded.

Note: When the DVW1 is connected to an AC voltage source that voltage will be present at the ACV input receptacle located at the upper right of the front panel.

WARNING: DO NOT CONNECT 120 VOLT APPLIANCE TO A DVW1 WHEN THE DVW1 IS CONNECTED TO A 220 VOLT POWER SOURCE.

Measuring AC Voltage

1. Depress the red AC VOLTS function switch.
2. Depress the black range switch
 - a. 0-200 volts for 120VAC input
 - b. 0-300 volts for 240VAC input
3. Connect the DVW1 power cord to the appropriate line voltage (120 or 240 VAC).
4. Read the measured voltage on the LCD display of the DVW1.

Note: When an appliance with a heavy load factor, such as an electric heater, is connected to the DVW1, the ACV reading may drop several volts compared to the no-load reading. This is indication that the ACV line is being loaded close to capacity for the size of load applied.

Measuring AC Amps

1. Depress the red AC AMPS function switch.
2. Depress the black range switch corresponding to the highest current being measured:
 - a. 0-20 amps for loads under 20 amps
 - b. 0-25 amps for loads over 20 amps
3. Connect the DVW1 power cord to the appropriate line voltage for the appliance being monitored.
4. Plug the appliance into the DVW1.
5. Turn the appliance on.
6. Read the amount of current the appliance is drawing on the LCD display of the DVW1.

Measuring AC Power

It is always good practice to start with the 6000 watt range by first pushing the black 6000 WATTS switch. This will prevent overloading the instrument if the power is unexpectedly high. Depress the red AC WATTS function switch.

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2. Depress the black range switch corresponding to the highest wattage to be measured:
 - a. 0-2000 watts for loads under 2000 watts
 - b. 0-6000 watts for loads over 2000 watts.
(multiply readings by 10)
3. Connect the DVW1 power cord to the appropriate line voltage for the appliance being monitored.
4. Plug the appliance into the DVW1.
5. Turn the appliance on.
6. Read the wattage of the appliance on the LCD display of the DVW1 (multiply the readings by 10 on the 0-6000 range).

LIMITED ONE YEAR WARRANTY

This product is warranted to the purchaser against defects in material and workmanship for one year from the date of purchase.

What is covered: Repair parts and labor, or replacement at the company's option. Transportation charges to the purchaser.

What is not covered. Transportation charges to the company. Damages from abuse or improper maintenance, see operating instructions. Any other expense. Consequential damages, incidental damages, or incidental expenses, including damages to property. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

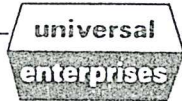
How to Obtain Warranty Performance: Attach to the product your name, address, description of problem, phone number and proof of date of purchase. Package and return to:



8030 SW Nimbus • Beaverton, OR 97008
(503) 644-8723 • Fax: (503) 643-6322

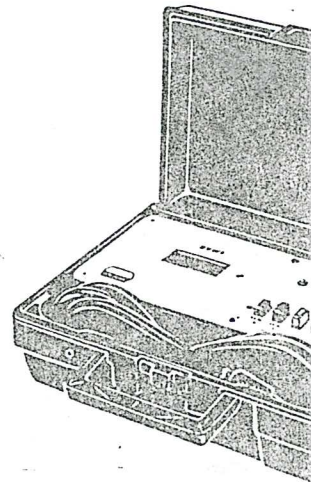
Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

To the extent any provision of this warranty is prohibited by federal or state law and cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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