

Jove Model A40 DC Watt-Hour Meter

Document 1875E

APPLICATIONS:

- Record DC energy consumption
- Record DC energy production
- Monitor battery state of charge
- Determine system efficiency



The Jove DC Watt-Hour Meter measures, calculates and displays the total electrical energy passing a given point in a direct current circuit. An electronic counter displays integrated energy values as watt hours (the product of volt-amps and time). Jove retains reading and configuration setting after complete power failure.

The A40 determines the current in the negative line of a source or load by measuring the voltage drop across a standard 50mV current shunt (as does the A35 Amp-Hour Meter). It also measures the potential voltage developed in the DC circuit. The potential voltage and current signals are digitized and multiplied. Each sample represents a discrete parcel of energy. When a predetermined number of these parcels has been accumulated, the display counter advances one count.

The clear cover allows viewing the display while maintaining the integrity of the enclosure

This instrument has been engineered to combine flexibility and ease of operation with high reliability and accuracy,

Shunts of various standard current ratings are available to match your requirements Other shunts may be substituted in the field by applying appropriate scale factors to the display options:

Digital Output

A pulse output is available for data logging.

ISO 9001 Registered

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Jove

DC Watt Hour Meter

SPECIFICATIONS:

Operating Power: Specify when ordering. See Model Designation Voltage range.

Input Device: 50 mV current shunt

Displays: 16 Character LCD Display

Controls: Reset.

Accuracy: $\pm 1\%$ of reading

Response Time: 5ms.

Withstand Capability: Input 50% overload, momentary.

Unattended Operating Period: Until counter overflow.

Ambient Instrument Temp. Range: 0 to 70 degrees C

Environmental Protection: Surge protection on input; weatherproof NEMA 4X enclosure.

Dimensions: Nominal, 7" w x 7" h x 4" d

Weight: 4 lb.

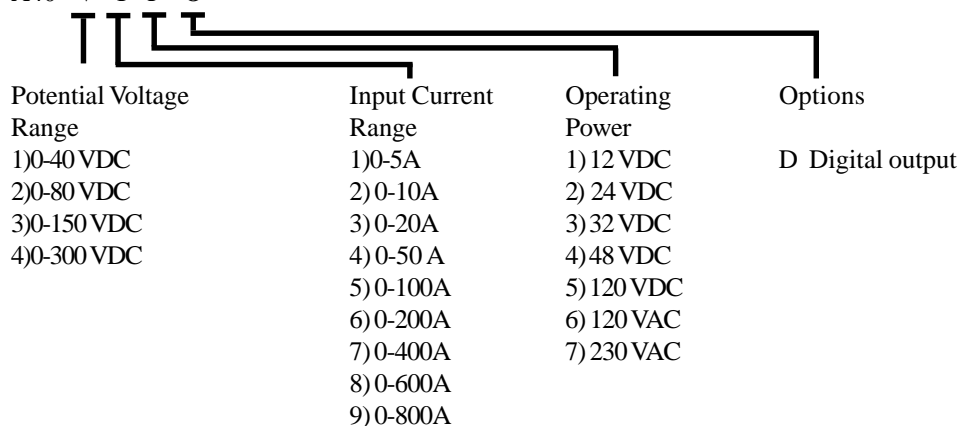
Connectors: Barrier strips to accept AWG #12 or smaller wire.

Maintenance: Recalibrate yearly.

Optional Accessories: Pulse 110 Data Logger

Model Designation

A40 - V I P O



Contact factory for other potential voltage & current ranges

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