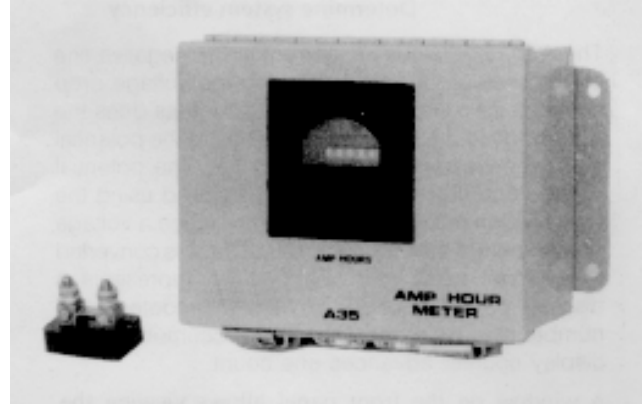


Donar DC Amp-Hour Meter Model A35

Document 1880C

APPLICATIONS:

- Determine capacity in a battery storage system.
- Calculate average current generated or consumed in systems with variable duty cycles.
- Especially useful for monitoring photovoltaic systems.



The Donar DC Ampere-Hour Meter displays accumulated direct current in an electrical circuit. An electromechanical counter totalizes integrated current values as ampere-hours (the product of instantaneous current values and time). Retains reading after complete power failure.

Donar senses current using 50 mV shunt inserted into the 'common' (return) line in series with the device or system to be monitored. The shunt produces a proportional voltage which is converted by Donar to a digital pulse train, itself proportional to the current. Thus, each pulse represents a unit of charge passing through the shunt. The display counter is incremented upon accumulation of a predetermined number of pulses.

A window on the front panel allows viewing the counter and power indicator 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:

Analog Output Option

Donar also provides an analog output signal which can be used for displaying or strip chart recording of instantaneous current levels.

Digital Output Option

Additionally, a pulse initiating output is available for data logging.

Lo-Temp Option

Where integrator operation below freezing temperatures is required, an extended temperature range from - 20 to 70 degrees C is available.

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Donar

SPECIFICATIONS:

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

Input Device: 50mV current shunt.

Displays: 6-digit resettable mechanical counter; LED power indicator.

Controls: Reset.

Accuracy: Current $\pm 1\%$ of Full Scale, Counter $\pm 1\%$ of reading.

Response Time: 1 ms.

Withstand Capability: Shunt, 50% overload, momentary.

Optional Accessories:

Analog Meter - see Series R30

Analog Recorder - see Series A10

Unattended Operating Period: Until counter overflow.

Ambient Instrument Temp. Range: 0 to 70 degrees C (-20 to 70 degrees C optional).

Environmental Protection: Lightning protection on input; weather resistant enclosure.

Dimensions: Nominal, 6"w x 8"h x 4"d; Clearance, 7"w x 10"h x 4 1/2 "d.

Weight: 8 lb.

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

Maintenance: Recalibrate yearly.

Model Designation

A35 - 0

Input Current Range	Operating Power	Options
1) 0-5A	1) 12 VDC	A Analog output
2) 0-10A	2) 24 VDC	D Digital output
3) 0-20A	3) 32 VDC	
4) 0-50 A	4) 48 VDC	
5) 0-100A	5) 120 VDC	
6) 0-200A	6) 120 VAC	
7) 0-400A	7) 230 VAC	
Z) Custom		

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