

Inverter Monitor AM100

Description

The AM100 Inverter Monitor provides performance information, user control, and diagnostics for up to eight GC-1000 grid-connected photovoltaic inverters. The monitor can be externally mounted in a remote location. Multiple inverters are monitored by sequential polling by serial number. The information gathered by the monitor is displayed in real time on the built-in 4-line by 20-character LCD display, or can be downloaded to Advanced Energy's PVMON multi-purpose data collection and display program running under DOS 6.0, Windows 3.1 or 95/98. The monitor interfaces to a PC via a standard RS-232 serial port.



Standard Features

Inverter Monitor

- ~ Monitors up to eight (8) GC-1000 inverters
- ~ Opto-isolated four-wire connection to inverter using standard RJ11 connectors
- ~ RS-232 serial interface to external PC
- ~ Real-time display of inverter operating parameters
- ~ 500 event and 1,500 data log storage
- ~ Historical data storage for each inverter in the array
- ~ Non-volatile storage for 14 days with 15 minute data averaging
- ~ Event logs show daily startup, shutdown, and fault conditions for each inverter
- ~ Four-button keypad; user-friendly menu system
- ~ Free-standing or wall-mounted to a standard three-inch electrical wall box
- ~ Wall-mounting plate allows hidden cable installation
- ~ Full support for PC and modem connections
- ~ Rugged aluminum package

PVMON

- ~ Instantaneous data display for up to eight (8) inverters
- ~ Graphical display of current and past data logs
- ~ Event log browsing
- ~ PC storage of event and data logs in spreadsheet-compatible .CSV format

Measured Parameters

Inverter Performance

V _{pv}	PV voltage into the inverter
I _{pv}	PV current into the inverter
P _{pv}	PV power into the inverter
V _{ac}	Grid voltage/inverter output
I _{ac}	Output current: instantaneous
P _{out}	Output power: instantaneous
Frequency	Line frequency measured by inverter
Temperature	Internal inverter temperature
KWh	Output power measured by inverter since morning startup: cumulative
Run time	Runtime of inverter since morning startup: cumulative

Data logs and events are time-stamped using the monitor's internal, battery-backed, Y2K-compliant, real-time clock.

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Advanced Energy is the recognized leader in the innovative design and manufacture of utility-interactive inverters — technically superior conditioning and control solutions for grid-connected photovoltaic systems.