

SOLAR2000

SOLAR MONITORING SYSTEM



OVERVIEW

SOL2000 is a remote monitoring controller that monitors 4 channels of DC Voltage, 4 channels of DC Current and energy. SOL2000 also contains a single phase AC power/energy measurement module. The DC energy measurement can be used to measure 4 charging or discharging energy parameters. The single phase AC meter measures Voltage, Current, Active Power, Apparent power, Power Factor and energy.

SOL2000 can also read from MODBUS slaves to gather data from field devices. All these data can then be stored in internal memory and uploaded to a server via a inbuilt GPRS modem.

Analog Channels can be either mV input from current shunts, voltage inputs or 4-20mA current inputs from the field.

SOL2000 also has 8 opto-coupled digital inputs and 4 relay outputs which can be used for control.

APPLICATIONS

SOL2000 is ideal for monitoring renewable energy off-grid systems. With its builtin AC and DC energy meters the charging of the battery, discharging of the battery as well as the output AC load can be monitored & controlled.

- Solar installation monitoring
- Remote energy management
- Wind monitoring
- UPS Monitoring
- Monitoring Gensets and Mains for offices and commercial establishments
- Monitoring Machines and productivity

FEATURES

- 4 Channel DC energy measurement
- DC Voltage, Current, Power and Energy
- Single Channel AC energy measurement
- AC Voltage, Current, Active Power, Apparent Power, Power Factor, Energy
- High resolution 16 bit ADC for analog parameter measurement
- 8 Opto-coupled digital inputs
- 4 Relay outputs
- Inbuilt GSM/GPRS modem
- RS485 Master with MODBUS protocol
- Non-volatile internal memory for saving records
- Panel mount enclosure
- 16 Character 2 line backlit LCD interface with auto power off
- 4 keys for local programming and display selection
- Local programming facility
- Adjustable log timings on the field without any complex equipment

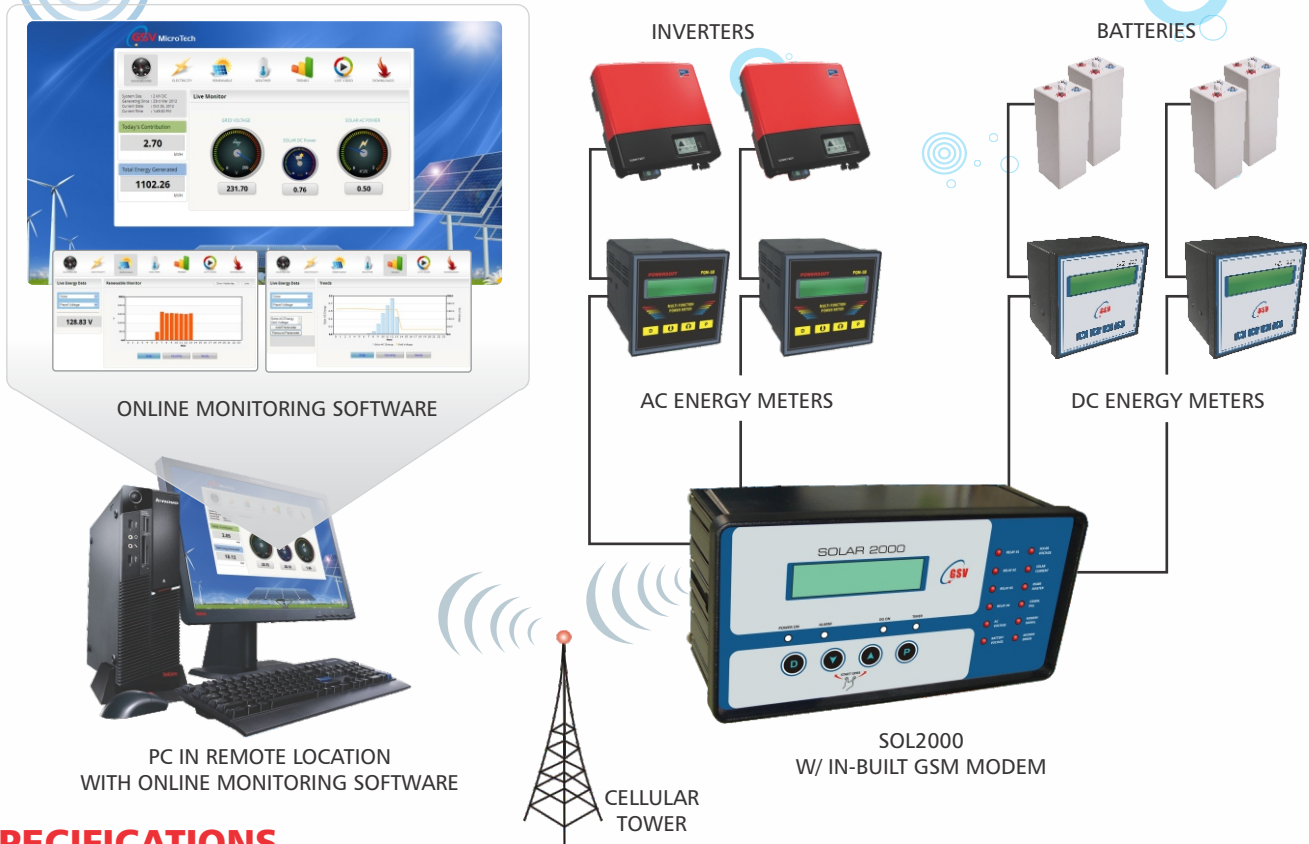
Communication Features

GSM/GPRS

- Inbuilt GSM modem
- Extremely low power standby mode
- GPRS data transfer to server direct
- Alarm communication via SMS to users
- Store and send while network is available



WORKING PRINCIPLE



SPECIFICATIONS

Analog Inputs	8
Analog Resolution	16 bits
Digital Inputs	8 Opto-Isolated
Relay Outputs / Rating	4 / 10A at 250V AC
Display	16 Character 2 line Backlit LCD display
Power Supply	12V DC
Real Time Clock	Built-In
GSM/GPRS Modem	Built-In
Storage	Inbuilt EEPROM
Storage Interval	Programmable
External Devices	Connect via RS485 master interface from SOL2000
Number of External Devices	20
SMS for alarm events	Programmable
Data Accessibility	On the web with login provided for each user
Operating / Storage Temperature	0 to 55° C / 0 to 80° C
Humidity	0 to 85% non condensing
Enclosure	Panel Mount 96x192 Aluminium/ABS



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