

# SITE POWER MONITOR

## Remote Monitoring Of Critical Site Conditions:



- DC Bus/Battery Voltage
- DC System Amperage/Battery Charge-Discharge Current
- AC Voltage
- Temperature
- Programmable Alarms
- Data Logging

## Monitoring Via:

- Internet – Software Included
- E-Mail
- Cell Phone
- Ethernet Camera

Web-enable and integrate intelligence to any site's AC and DC power system for 24/7 monitoring, alarm condition notification, and data logging of vital electrical functions. All programmable, accessible, and managed via the Internet: TCIP or SNMP. View current conditions and log 30 day history of DC and AC power status at remote sites before dispatching personnel.

The Site Power Monitor is designed specifically for monitoring power supplies, rectifiers, batteries, converters, inverters, UPS, distribution panels, and AC power at communication sites, base stations, outdoor enclosures, and command vehicles via Ethernet or Wireless connection. The palm sized unit can be rack, DIN-rail, or wall mounted and is easily adapted to virtually any make of power system via nine sensor input ports which capture and stream critical data via the internet for analysis and logging of site history. Web page based programs are easily user configured for site parameters with up to 50 desired alarm conditions settings and multiple automatic notification options by e-mail, PDA, and mobile phone.

Sites without internet access can use the monitor solely as a data logging instrument that captures and retains a 30 day history file, ready for download to a lap top computer during maintenance visits for recording site history and analysis of component performance and failure conditions.



Cell Sites ■ Mesh Radio Networks & Outdoor Enclosures ■ Command Vehicles ■ Rack Power Systems ■ Microwave Hubs

**NEWMAR**

Monitoring the Network

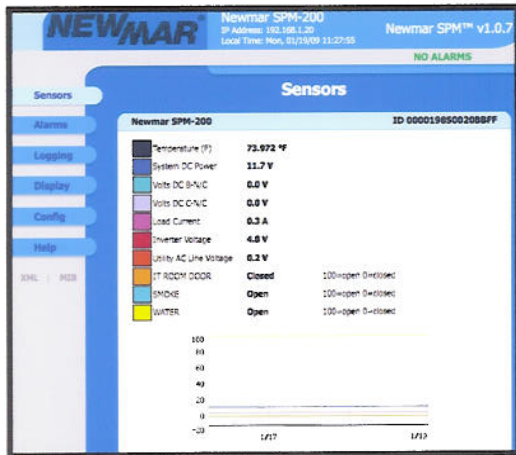
Newmar Beach, CA USA

www.newmar telecom.com ■ 800-854-3906

# SITE POWER MONITOR

## Monitoring Options

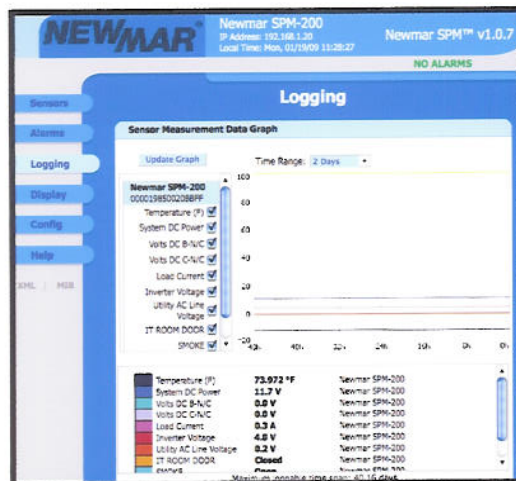
For A Live Demo Go To  
<http://spmsamplesite.newmarpower.com>



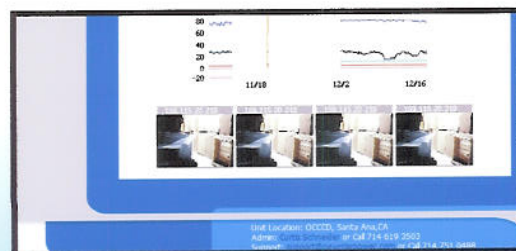
Sensors



Alarms



Data Logging



Web Cam



Via Internet  
Data Screens

Alarm  
Notifications

Via E-mail



Via Cell Phone



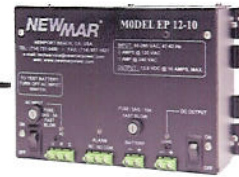
# SITE POWER MONITOR

## Sensor Input Examples

9 Ports Available, See Complete List - Back Page



### Solar Panel Voltage



- Enclosure Power Supply**
- DC Voltage
  - DC Current



- Low Voltage Disconnect**
- Disconnect Status
  - Battery Voltage



- Rectifier/Battery Charger**
- DC Bus Voltage & Current
  - Output Current



- DC Distribution Panels**
- Bus Voltage
  - Load Current
  - Breaker Trip Alarm



- DC Converter**
- Input/Output Voltage
  - Output Current



- Inverter**
- DC Input Voltage
  - AC Output Voltage
  - Alarms



- Site Power System**
- Alarms - Major/Minor
  - Voltages
  - Current
  - Temperature

### Battery

- Voltage: 12/24/48
- Charge/Discharge Current



### Generator Voltage



### AC Voltage



### Ambient Temperature



### Door Open Alarm

# SITE POWER MONITOR

## Site Power Monitor Specifications Model: SPM-200

### Inputs

**Power Source Voltage:** 9-60 negative/positive ground, 250 mA max.

### Monitor Inputs: 9 Total

#### Voltage:

##### DC: 3 Ports:

- 2 each: 0-40 VDC
- 1 each: 36-60 VDC
- Accuracy: +/- 2%

##### AC: 2 Ports:

- 120/240 ( 90-264) utility power (L-N or L-L)
- 120/240 inverter output (floating)
- Accuracy: +/-2%

#### DC Current: 1 Port

- +/- 100mv, 100 amp differential shunt voltage
- Read battery charge/discharge current, or load current
- Optional Shunt required for monitor package: P/N 575-2000-0
- Accuracy: +/-3%

#### Dry Contact Switch Sensors, 3 Ports

- Possible uses: door open, water leak detection, smoke alarm, component fail, breaker trip

#### Temperature Sensor

- Located outside case of unit
- Range: -40 to +60° C, -40° to +140° F
- Accuracy: +/-0.5° C

### Reporting

- Ethernet Port connection: RJ-45, 10/100 autosense
- HTTP - Web Access, Self-generated Web-page
- SNMP - MIB with Gets, Traps, and Clears
- Alarms - HIGH and LOW trip, 50 max, user-programmable
- Logging - Excel logs created, time stamped, continuous graphing
- SMTP/POP3 - email alerts, POP password
- Data Formats: XML, PDA, WAP (cell phone)
- Optional Console - Multiple Site Monitor with log aggregation and thumbnail camera views
- Remote Firmware upgrades - no need to visit the site.
- Local Data downloading and programming require and RJ-45 cross over cable (not included)

#### Data Screens:

- Sensors
- Alarm settings (customized web page)
- Data logging
- Camera feeds (4 max.)

#### Data logging: Remote Or Download Locally:

- 30 days + rolling history with 30 second interval refresh
- CSV file compatible

**Images:** Ethernet Camera Enabled

### Alarms

- 50 user configurable all with separate high/low trip settings
- Notification by Via Internet, e-mail or mobile phone
- User-programmable notification to 5 different e-mails addresses

### Diagnostics/Indicators/Controls

#### Front panel LED's:

- Input Power ON/OK
- System OK
- Flashing Activity Indicator Ethernet port
- System reset button

### Protections

- Reverse Polarity
- Input overvoltage
- External 1A slo-blo fuse provided for DC power input

### Mechanical

**Case:** Aluminum, powder coat

**Size:** 2.18" x 3.27" x 4.66"

**Weight:** 1 lb

#### Mounting options:

- Wall mount
- DIN rail
- 19 or 23 inch rack mount (via optional bracket)

#### Input Ports:

- Compression Screw terminal block
- 14-26 awg wire

### Optional Accessories

- Video Cameras
- 12 or 24 volt wall plug power supply
- Sensors
  - Water
  - Door/window open alarm
  - Fire/smoke detector
  - Shunts
- Software
  - Multi site monitor software - up to 100 sites
  - Rack mount panel for 19/23" racks

### Environmental:

- Operating Temperature range 20° C to 60° C

**Warranty:** 2 years



SPM-200 with optional rack mount panel for 19/23" racks