# Site Monitor & Control



The Site Monitor and Control unit allows you to download real time data, and control devices remotely from your desktop or mobile phone. Remotely activate DC or AC devices, no more driving to a mountain top to cycle power to re-boot a piece of gear, perfom a battery discharge test, or start and monitor the output of a generator.

Numerous power sensors options lets you configure onsite input to meet particular needs. Monitor DC volts/amps, temperature and alarms. Easy to use web based reports utilize Linux® operating system provide real time status, and logging feature stores data graphically for further analysis and forensics. In addition to the power sensors, the system monitors 5 different alarm channels: such as a door, open, smoke, water, etc. Also monitors transmitter signal strength of radios with RSSI output.

## Features

- Monitors basic electrical functions: battery voltage, charge/discharge rate
- Monitor critical site environmental conditions: temperature, door open alarms, smoke/ fire detectors, including 2 USB ports for cameras and other equipment
- Set alarm notification points: reported by e-mail or cell using SMS text messages, SNMP traps
- Customize data screens per site input configuration
- Customize monitoring programs and upload to SMC control board

- Remotely control two built-in relays that can be wired to AC or DC functions, such as:
- Start/Stop generator
- Cycle power to re-boot lock-up conditions
- Disconnect batteries or rectifiers for system power test
- Automatically cycle various loads based on site condition parameters you set from desktop, example cycle ventilation fan when ambient temp reaches critical level
- Optional board provides 5 additional controllable relay ouputs, connects into USB port

| Model | Powered By | Power Consumption | Dimensions (Inches) | | | Weight |
|-------|-----------|-------------------|------|------|------|--------|
| | | | H | w | D | |
| SMC-300 | 12 - 60 VDC, neg./pos ground | 1.2 Watts | 4.38 | 10.25 | 2.3 | 3 Lb. |

Powering the Network

# Site Monitor & Control

## Specifications

### Operating Voltage

12 - 60 VDC, pos. or neg ground

Power Consumption

1.2 Watts

### Inputs

- 1 Ethernet (10/1000 Mb/s)
- 3 DC inputs configurable to sense combination of:
  - DC Volts: +/- 100
  - DC Amps: 50 - 1000 A (one 100A shunt provided)
- 4 General purpose I/O pins (3.3 VDC in or out)
- Onboard Temperature Sensor: -25° to 100° C
- 5 alarm pins for external alarm contacts
- 2 USB 2.0 ports
- 2 control relays, 5 amps DC or AC (240V) controlled, each with manual override button for onsite testing
  - Optional board for 5 additional control relays
- 1 console serial port
- Signal strength for radios equipped with RSSI output

### Graphic Functions

- Voltmeter
- Ammeter
- Temperature
- Interval: day, week, month, year

### Alarm Alerts

- Email
- SMS messaging

### Mechanical

- Compact size: 4.38" H x 10.25" W x 2.3" D
- Mounting: wall, shelf or rack using model BPL-3 rack bracket (3RU)
- End panel wiring ports and fully size removable cover allows easy access to connections
- High impact plastic box with clear cover allows viewing of board mounted status lights
- Operating temp: -30° - +85° C

### Options

- USB plug-in board expands relay capacity by 5 additional outputs for remote control of AC/DC equipment onsite, model REB-5

**Example of Data Log Screen**



System Load Average

FROM: 2010-07-04 14:09 - TO: 2010-07-11 14:09 - (1 Week)

| | | Cur: | | Ave: | | Max: | |
|---|---|---|---|---|---|---|---|
| ■ | 1 Minute | Cur: | 1.10 | Ave: | 1.07 | Max: | 1.33 |
| □ | 5 Minute | Cur: | 1.14 | Ave: | 1.11 | Max: | 1.35 |
| □ | 15 Minute | Cur: | 1.10 | Ave: | 1.10 | Max: | 1.31 |

*Powering the Network*