

# Site Monitoring Unit

## SMU01C

### Introduction

SMU01C is a monitoring unit for site and power. It supports the monitoring management of HUAWEI embedded power systems. It can monitor and manage telecom power system, and provides site monitoring function. LCD screen and keyboard are equipped in the unit to realize man-machine interaction. It has a serial communication port to realize local and remote monitoring. It has sensor ports to monitor the ambient condition.

### Features

- Performs comprehensive power management and intelligent battery management
- Provides 4 dry contact outputs
- Provides 2 Boolean value inputs
- Provides ports battery temperature sensor, ambient temperature sensor
- Supports English and Chinese as displayed language
- Supports hot plug



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|-------------------------------------|-------------------------------------|
| (1) Running indicator               | (2) Major alarm indicator           |
| (3) LCD                             | (4) Four buttons                    |
| (5) Locking latch                   | (6) DIN port                        |
| (7) Alarm port                      | (8) Ambient temperature sensor port |
| (9) Battery temperature sensor port | (10) RS485/RS232 port               |
| (11) COM port                       |                                     |

### LCD function

- View active alarms and historical alarms
- View the running status of the system, such as the system voltage, load current, and battery testing records
- Set system parameters, communications parameters, power supply unit(PSU) parameters and battery management parameters
- Control the system status, such as choosing boost charge or floating charge and PSU dormancy charge
- Set parameters quickly, such as the battery string parameters, date, time, and communication addresses

### Function

Product	SMU01C
Detection	AC input voltage
	DC output voltage
	Load current
	Battery current
	Battery temperatures
	Ambient temperatures
Battery management	Battery boost charge
	Battery floating charge
	Battery tests
	Battery current limiting
	Battery temperature compensation
	Battery overtemperature protection
	Battery low voltage disconnection(BLVD) protection
	Battery imbalance detection
	Battery capacity detection
Energy saving management	Intelligent rectifier module hibernation
Rectifier management	Rectifier operating information
	Rectifier power-on/off control
	Rectifier output voltage limiting
	Rectifier output current limiting
Alarm	Main AC input fault/over-voltage/under-voltage
	DC output over-voltage/under-voltage
	Battery over-temperature/under-temperature
	Ambient over-temperature/under-temperature
	Ambient over-humidity/under-humidity
	Water inrush/smoke alarm
	Battery discharge
	Battery charge over-current
	Load fuse trip
	Battery loop trip
	Rectifier fault
	Battery disconnection
	Load disconnection

# Site Monitoring Unit

## SMU02B

### Introduction

SMU02B is a type of high-end monitoring unit for site and power. It can monitor and manage telecom power system, and provides site monitoring function. LCD screen and keyboard are equipped in the unit to realize man-machine interaction. It has a serial communication port and an Ethernet port to realize local and remote monitoring. SMU02B supports the monitoring management of HUAWEI's power system series, including embedded power, indoor power and outdoor power system.

### Features

- Performs comprehensive power management and battery management
- Grid quality detection
- Intelligent temperature control
- Support time, voltage, capacity disconnecting protection and LLVD1, LLVD2, BLVD
- Supports CAN communication
- Supports north monitoring ports CAN and FE. FE interface supports SNMP and allows safe access to WEB
- Supports electronic label function
- Supports remote software upgrade
- Supports downloading historical logs and statistics
- Provides five analog inputs(AI), twelve dry contact outputs(DO) and nine Boolean value inputs(DI)
- Provides ports to connect to the smoke sensor, door status sensor, water sensor, battery temperature sensor, ambient temperature and humidity sensor
- Supports multiple languages, such as English, Chinese, Turkish, Spanish, Portuguese and German
- Supports hot plug



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|---------------------------|-----------------------------|-------------|
| (1) Running indicator     | (2) Minor alarm indicator   |             |
| (3) Major alarm indicator | (4) LCD                     |             |
| (5) Locking latch         | (6) Button                  |             |
| (7) USB port(reserved)    | (8) RS485/RS232 serial port | (9) FE port |

### LCD function

- View active alarms and historical alarms
- View the running status of the system, such as the system voltage, load current, and battery testing records
- Set system parameters, communications parameters, power supply unit(PSU) parameters and battery management parameters
- Control the system status, such as choosing boost charge or floating charge and PSU dormancy charge
- Set parameters quickly, such as the battery string parameters, date, time, and communication addresses

### Function

Product	SMU02B
Detection	AC input voltage
	AC input current
	AC frequency
	DC output voltage
	Total load current
	Total battery current
	Current of the nth battery(VRLA battery)
	Battery temperature
Energy conservation management	Ambient temperature & humidity
	Intelligent rectifier hibernation
Rectifier management	Peak clipping power consumption
	Rectifier operation information
	Rectifier power-on/off control
	Rectifier output voltage limit
	Rectifier output current limit
	Rectifier overvoltage protection
Battery management	Sequential rectifier startup
	Battery manual or automatic control
	Battery charging
	Battery test
	Battery current limiting
	Battery temperature compensation
	Battery high temperature protection
	Multi-mode and multi-level disconnecting protection
	Battery imbalance detection
	Battery capacity calculation/backup time calculation
Alarm	Internal fault
	AC phase failure
	AC/DC overvoltage/undervoltage
	Load/battery fuse break
	Battery discharging
	Load low voltage disconnection (LLVD1, LLVD2)
	Battery low voltage disconnection (BLVD)
	Battery temperature high/very high/low/very low
	Rectifier failure
	No response for rectifier