SC200 System Controller

The **Eaton® SC200 System Controller** is an advanced control and monitoring solution for Eaton Enterprise, Access, Metro and Core Power Solutions.

It provides a full suite of advanced communications options, including built-in Ethernet interface, Web server, and SNMP agent.

Alarm notifications may be by SNMP traps, email, SMS, dial-out to PowerManagerII remote monitoring software, or relay contact closures.

An intelligent "Smart Alarms" feature provides highly configurable control and alarms to automated site management and improve performance – e.g. disconnect loads during peak AC grid loading, run outdoor cabinets in low noise mode at night, manage cooling, or customise site alarms to network requirements.

The SC200 provides full generator control and fuel metering capability for off-grid, hybrid generator, battery, solar and wind applications.

The SC200 is supplied preconfigured with a default configuration file, or factory customized for a particular application, ensuring fast and problem free installation. On-site changes are easily made from the front panel or with a Windows PC using DCTools configuration software.

The high-resolution color LCD display is easy to read and has an easy to use menu structure. All system values and alarms can be displayed, with easy keypad access to check or edit settings.

The SC200 works with separate system I/O boards for powerful and user-friendly interfacing. Easy, low cost I/O expansion is possible by adding additional I/O boards.

Typical Applications:

- 24V & 48V power systems
- Wireless cell sites & switches
- Transmission terminals
- Local & central office switching

Options:

- External GSM or PSTN modem
- Additional I/O boards for system expansion
- SiteSure-3G modules for site management

Features

- Ethernet interface built-in
- SNMP agent V1, V2c, V3
- Battery mid-point monitoring & discharge time remaining
- Generator control & fuel metering
- Alternative energy input metering
- SMS & email alarm messages (with GSM modem)
- Comprehensive system control functions
- Complies with international standards
- Setup via web, keypad or DCTools configuration software
- Language options
- Optional extra I/O boards or SiteSure-3G modules for expansion
- Smart alarms
- Modbus

E·T·N

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Technical Specification

Operation

Supply Voltage Range	18 to 60Vdc
Operating Range	Standard: -10 to +50°C [14 to 122 °F]
	Extended: -25 to 70°C [-13 to 158 °F]

Input/Output Standard

Analog inputs	Current sensor (3), Bus voltage (1), Temperature (2)
Digital inputs	4 Internal (pre-defined), 6 external (user-defined)
LVD contactor outputs	2 with one IOBGP module
	Up to 16 with additional IOBGP modules
Relay outputs	6 Voltage free, NO-C-NC, 0.1A @ 60VDC
	Screwless terminal block, 0.5mm² - 2.0mm² conductors

Communications Interfaces

Physical	Ethernet, USB and RS232
Software	IP, http, https (secure web), S3P, Modbus, SMTP (email)
Management software	DCTools configuration / local management software.
	PowerManagerII remote management software. SNMP version V1, V2c or V3. Supports standard Network Management System software including HP OpenView Network Node Manager.

User Interface

Display	Back-lit color dot matrix LCD 160 x 128 pixel
	Adjustable viewing angle
Keypad	6 keys
Language Options	English: Standard
	Spanish, German and Chinese available on request.
	Other language software upgrades by arrangement.
Indicators	Power on, Critical/Major alarm, Minor alarm

Mechanical

Dimensions H,W,D	SC200: 133.5mm (3U), 44.5mm, 70mm
	IOBGP: 106mm, 175mm, 18mm
Mounting	SC200: rectifier slot or flush panel mount
	Orientation: vertical or horizontal
	IOBGP: panel mount

Datalogging

Event Log	10,000 records
Data Log	10,000 records

Options

Input/Output	With IOBSS module (SiteSure-3G):
	Analog inputs: 48
	Digital inputs: 108
	Digital outputs: 32
Modem communications	PSTN or GSM. Requires external modem.

Certifications

China	MII
North America	UL, FCC Verification, IC
Europe	CE
Australia / New Zealand	C-tick

In the interests of continual product improvement all specifications are subject to change without notice.

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