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, dialout 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. Onsite 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



Technical Specification

| Operation | |
|-----------------|---|
| Supply Voltage | 18 to 60Vdc |
| Range | |
| 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 | 2 with one IOBGP module |
| outputs | Up to 16 with additional IOBGP modules |
| Relay outputs | 6 Voltage free, NO-C-NC, 0.1A @ 60VDC |
| | Screwless terminal block, 0.5mm ² - 2.0mm ² |
| | 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 | English: Standard |
| Options | Spanish, German and Chinese available on |

request.
Other language software upgrades by

arrangement.

Power on, Critical/Major alarm, Minor alarm

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Indicators

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|-------------|--|
| Dimensions | SC200: 133.5mm (3U), 44.5mm, 70mm |
| H,W,D | 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 | |

| O | ptions | |
|---|--------|--|
| | | |

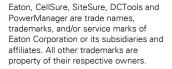
| Input/Output | With IOBSS module (SiteSure-3G): |
|----------------|---------------------------------------|
| | Analog inputs: 48 |
| | Digital inputs: 108 |
| | Digital outputs: 32 |
| Modem | PSTN or GSM. Requires external modem. |
| communications | |

Certifications

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

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







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