SC300 System Controller



The Eaton® SC300 System Controller is an advanced control and monitoring solution for Eaton Enterprise, Access, Metro and Core Power Solutions.

The SC300 replaces the SC200 controller, providing higher performance and a range of advanced features, while being fully compatible with existing systems.

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, or relay contact closures.

An intelligent "Smart Alarms" feature provides highly configurable control and alarms to automated site management and improves 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 SC300 provides full generator control and fuel metering capability for off-grid, hybrid generator, battery, solar and wind applications.

The SC300 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.

The high-resolution colour LCD display is easy to read and has an easy to use menu structure.

The SC300 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
- Solar hybrid systems
- Data collection and control (SCADA)

Options:

- Additional I/O boards for system expansion
- SiteSure-3G modules for site management
- External GSM modem
- FC100 fan controller for outdoor cabinet / shelter cooling control

New Software Features

- 100BaseT Ethernet
- Meter up to 20 channels of energy and power
- Control ASC48-ES solar charger
- Add, average and Multiply input values with Smart Analogs
- Outdoor cabinet fan control (with FC100)
- User-configurable data / event log
- Local view and configuration using web browser over USB

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
- 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
- Latched or normally-open LVD options
- Smart alarms
- Modbus



Technical Specification

With IORGP

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) with IOBGP-00/01
	9 external (user-defined) with IOBGP-10/11/20/21
LVD contactor	2 with one IOBGP-00/01/20/21 module
outputs	3 with one IOBGP-10/11 module
	Latched or normally-open contactor options
	Up to 16 with additional IOBGP modules
Relay outputs	Voltage free, NO-C-NC, 0.1A @ 60VDC
	Screw-less terminal block, 0.5mm ² - 2.0mm ²
	conductors
Number	6 with IOBGP-00
	8 with IOBGP-20/21
	10 with IOBGP-10/11

Communications
latanta a a a

Interfaces	
Physical	Ethernet (100BaseT), Micro USB (type AB), RS-485 and RS-232
Software	IPV4, http, https (secure web), S3P, Modbus, SMTP (email), SNMP V2c, V3 DHCP and Auto IP
Management software	Web server PowerManagerII remote management software. SNMP version V1, V2c or V3. Supports standard Network Management System software. Modbus-TCP and Modbus-RTU. Supports standard BMS software.

User Interface

Back-lit color dot matrix LCD 160 x 128 pixel
Adjustable viewing angle
6 keys
Default: English
Option: German
Other language software upgrades by arrangement.
Power on, Critical/Major alarm, Minor alarm

Mechanical

Dimensions	SC300: 133.5mm (3U), 44.5mm, 70mm
H,W,D	IOBGP: 106mm, 175mm, 18mm
Mounting	SC300: rectifier slot or flush panel mount
	Orientation: vertical or horizontal
	IOBGP: panel mount

Datalogging

Maximum size	
Event log	20,000 records
Data Log	20,000 records
Energy Log	20,000 records

Options

Орионо	
Input / Output	With IOBSS module (SiteSure-3G):
	Analog inputs: 60
	Digital inputs: 108
	Digital outputs: 108
Modem	GSM modem for SMS alarm notification
communications	3G Router for full wireless communication

Certifications

China	MII
North America	UL, FCC Verification, IC
Europe	CE
Australia /	RCM
New Zealand	

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



Eaton, SiteSure and PowerManager are trade names, trademarks, and/or service marks of Eaton Corporation or its subsidiaries and affiliates. All other trademarks are property of their respective owners.



Email: dc.info@eaton.com Internet: www.DCpower.eaton.com