

Controller ORION

Description

The Delta ORION controller is the solution for any system, from small to very large, thanks to easy expandability with CAN bus communication and a range of front-end modules. Enhanced functions, such as efficiency mode and Genset fuel saving, enable operating cost reductions. Battery management with capacity test and life time prediction and enhanced rectifier functions including redundancy supervision make it easy to monitor system availability and plan site visits in cost effective manner.

Remote monitoring and alarming, and consequent cost savings, are ensured with potential-free relay contacts and modem or LAN/Ethernet, SMS, SNMP or Modbus. An integrated web server offers a user-friendly interface with a standard browser both for local and remote communication

Main features

- Remote monitoring with modem or LAN
- Integrated, user friendly WEB server, display and keypad
- Integrated PLC (Programmable Logic Controller) functions to enhance flexibility, and monitoring and controlling site infrastructure
- Advanced battery management and testing methods
- Easy maintenance by pluggable architecture

Applications

ORION is used in Delta CellD, MidD, CabD and OutD systems for:

- Network base stations
- Wireless applications
- Fixed line applications, data communications



Delta's advanced supervision units make it easy to measure, monitor and control your power system operations.

Delta controllers are the intelligence of power systems enabling significant cost savings in both OPEX and CAPEX. Cumulative cost savings of genset downsizing or remote monitoring possibilities can be substantial. Delta controllers deliver the benefits modern technology can offer.

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Technical specifications

1. Functions

System	PLC functionality for customization and supervision and control of auxiliary devices
	AC measurement (internal / external)
	Mains failure/phase failure detection and alarming
	LVD and PLD functions
	Advanced genset functions for fuel savings
Battery	Configurable event and data log
	Temperature compensated float charge/ Boost and equalize charge
	Charging current limitation (advanced)
	Low voltage disconnection
	Backup time supervision
Rectifiers	Symmetry supervision for voltage and currents
	Block voltage supervision (optional)
	Individual rectifier information and control
	Sequential start-up / system soft start
	Efficiency mode with advanced rectifier cycling
	Redundancy and power capacity supervision

2. Features

Rectifier interface	Digital, CAN-based
Number of rectifiers	Up to 128
Digital input	From 4 up to 227(Optional)
Relay output	From 6 up to 99
Temperature	From 2 up to 98
Voltage, current	Up to 200
Display	1 integrated, up to 2 user interface modules
Local monitoring	LAN / WEB browser

Remote monitoring	LAN / modem, GSM, GPRS / WEB browser
Remote alarming	Dry contacts / SNMP/SMS
Languages	English + 2 downloadable language

3. User interface

Local user interface	5 configurable LEDs LCD display Keypad
UIM (optional)	5 configurable LEDs LCD display Keypad Buzzer
WEB	Four different access levels More than 200 dynamic WEB pages SW and setup updates locally and remotely
SNMP	Remote alarms using traps Dial-out feature together with modems

4. General

Voltage range	18 - 75 VDC
Current	0.8 ADC (max)
Input protection	Internal fuse 2 A/None
Dimensions (H x W x D)	40.0 x 83.5 x 190 mm 1.58 x 3.29 x 6.89 in(Controller body)
Weight	0.6 kg 1.32 lb
Standards Safety	EN 60950, class I UL 60950 CAN / CSA - C22.2
EMC	EN 55022, class B ETSI EN 300386 compliant
Cooling	Natural air flow
Operating temperature	0 to +65 °C +32 to +140 °F
Relative humidity	95 %, non-condensing

Subject to change without notice.



Delta Power Solutions (I) (P) Limited
Plot no. 43, Sector 35, HSIIDC, Gurgaon,
Haryana, India -122001
Phone: +91 124 4169040, Fax: +91 124 4874945
www.deltaelectronicsindia.com