

Power

Cordex™ CXCI

Integrated System Controller



CXCI

- Control and monitor via Internet Explorer browser
- Integrated SNMP
- High reliability CAN bus communication
- User definable alarms and data logging
- Flexible battery management features
- Smart peripheral monitoring features

The Cordex CXCI controller brings advanced monitoring technology to the Cordex series of rectifiers. This compact system controller is designed for seamless operation and set up of Argus power systems and is equipped with the complete range of Cordex software features.

The integral CXCI controller includes a web server, providing easy set up of remote monitoring using the standard Windows Internet Explorer browser and an internet connection. The CXCI log provides detailed site problem and performance analysis, which can be viewed either locally or remotely via the web interface.

Optional smart peripheral modules support devices for 2 or 12V battery cell monitoring, providing detailed battery performance logging during a fail-safe battery test or power outage. The integrated logging feature, typically only available with an advanced standalone data logging system, allows the capture of data from multiple inputs for AC/DC voltages, load / battery current, and cell voltages/temperatures (automatically for up to 16 user defined logs). Common applications of the CXCI logging include power system details, thermal performance of outdoor enclosures, battery cell specifics, or mains variations captured by an AC voltage watchdog.

The Cordex CXCI integrated system controller ensures effortless operation of the Cordex rectifier family. Time consuming, complicated set up and monitoring of DC power systems are now a thing of the past.

Cordex CXCI System Controller

Features

Rectifier Features

- Single Point Adjustment
- Auto Load Share
- Plug & Play
- Power Save
- Power on Delay Start
- Upgradable Firmware via CXCI

Battery Features

- Temperature Compensation
- Manual, Auto & Periodic Equalize
- Battery Current Terminate Equalize
- Battery Over Temp Equalize Shutoff
- Dynamic Charge Current Control
- Battery Runtime & Capacity Indication
- Battery Low Capacity Warning
- Auto or Manual Battery Test Mode
- Smart Peripheral Module for 2V & 12V Battery Cell Monitor

System Features

- CAN Bus interface to Cordex rectifiers and Smart Peripheral modules
- Power On System Delay Start
- Password Protection
- Virtual Rectifier, Battery & Shunt Addition Current
- I/O for 2 Temp Inputs, 2 Digital Inputs and 4 Form-C Relays
- User Configurable Signals
- Languages for English, Chinese & 3rd Language option
- User Configurable Alarms
- Downloadable Software Upgrades

User Interface

- Ethernet Connection
- SNMP
- Web Based GUI
- Internet Browser
- Email Notifications
- Web Server

Communication Ports

- CAN: Interface to Cordex series rectifiers and optional smart peripheral modules
- Ethernet: 10/100 Base T with half/full duplex

Log Files

- Daily Statistics: Minimum, maximum and average on analogue input channels with date and time stamp
Battery current, rectifier current and AC mains voltage for last 90 days
- Event Log: On all events such as alarms, power on, any change of state of the digital inputs or other miscellaneous events
- Battery Log: Battery health history on last 20 discharges with time of discharge and battery capacity.
- Data Logging: Up to 16 user configurable logs of all system signals including Smart Peripheral modules

Configurable Alarms

Alarms can be Mapped as Major, Minor or Message

- Rectifier: Rectifier Major/Minor
Multiple and Individual Rectifier Fail
Rectifier Communications Lost
Rectifier Equalize Activated
Rectifier Mains Fail
Rectifier Fan Fail Alarm
Rectifier Power Save Activated
Urgent AC Mains Fail Timer
- Battery: Battery Run Time Low
Battery Capacity Low
Battery Over Temperature
Battery on Discharge
Temp Sensor Fail
- System: AC Mains High/Low Alarm
High/Low Voltage Alarm
High/Low Voltage 2 Alarm
Charge Current High
Total Load Current High
Digital Input Alarms (editable text label)
Real Time Clock Error
Invalid Device Firmware
Improper CXCI Shutdown

Smart Peripheral Modules

- Shunt multiplexer: Monitors up to 16 shunts per module
- Battery cell monitor: BCM2V 1 string of 2V cells per module
BCM12V 4 strings of 12V cells per module

Electrical

- Input Voltage: 17 to 65VDC
- Current: <100mA @ 48VDC or < 200mA @ 24VDC

Mechanical

- Dimensions: mm: 88H x 26W x 280D
inch: 3.5H x 1.0W x 11.0D
- Mounting: Integrated on Cordex 2RU Series
19" & 23" shelves

Environmental

- Temperature: -40 to 65°C
- Humidity: 0 to 95% RH non-condensing

Standards

- CSA C22.2 No 60950-1-03
- UL 60950-1 1st Edition
- CE Marked

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