

Power

Cordex™ CXCM2 System Controller



CXCM2 Modular Controller

- LCD touch-screen and web based GUI
- Internet ready, integrated SNMP
- User definable alarms and data logging
- Flexible battery management features
- 2RU modular CXC for 1.8kW rectifiers
- Upgradeable I/O via CXC Smart peripherals

Cordex CXC controllers bring advanced monitoring technology to the Cordex series of rectifiers. The CXCM2 is a modular system controller option for the 2RU 48V-1.8kW rectifier shelf systems.

The CXCM2 controller includes a PDA-style touch screen GUI for simple and convenient local setup. A built-in web server provides alternate setup via local or remote IP access using a standard Windows Internet Explorer browser.

The integrated logging feature allows the capture of data from multiple inputs for AC/DC voltages, load/battery current, and cell voltage/temperature. Common applications of the CXCM2 logging include power system details, thermal performance of outdoor enclosures, battery cell specifics, or mains variations captured by an AC voltage watchdog. The CXCM2 I/O feature set can be easily expanded with the addition of CXCM2 Smart Peripherals such as battery cell monitoring, shunt multiplexing, and alarm relay expansion.

Cordex CXCM2 modular controllers ensure 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 CXCM2 System Controller

Part Number: 018-573-20

Features

User Interface:

GUI:LCD touch screen display for local access
 Embedded web based GUI accessed via ethernet or modem using internet browser (IE6 and above)
 Display:.....Full graphic LCD, 160x160 pixels, with backlight and contrast adjustment
 Audio:Built in speaker for audible alarm
 LED indicators:System OK – green
 Minor alarm: yellow
 Major alarm: red

Rectifier features:

Single point adjustment
 Auto load share
 Power save
 Power on delay start

Battery features:

Temperature compensation
 Manual, auto and periodic equalize
 Battery current terminate equalize
 Battery over temp equalize shutoff
 Dynamic charge current control
 Battery runtime and capacity indication
 Battery low capacity warning
 Auto or manual battery test mode

System features:

CAN Bus interface to Cordex rectifiers and smart peripheral modules
 Password protection
 Virtual rectifier, battery & shunt addition current
 User configurable alarms
 User configurable signals
 Languages for english, chinese & 3rd language option
 Downloadable software & firmware upgrades

Communications:

Alarm relays:Potential free form C contacts
 SNMP:SNMP v2.5 via ethernet.
 Requires SNMP management software (e.g., HP openview, SNMPc)
 Email:.....SMTP via ethernet or modem

Communication ports:

CAN:Interface to Cordex series rectifiers and optional smart peripheral modules
 RS-485:For optional Pathfinder rectifier control
 Ethernet:10/100 Base T with half/full duplex
 Modem:Internal option via list option
 External option via rear RS-232 port
 Serial:.....RS-232 (Front)

System I/O:

Alarm relays:6
 Voltage inputs:.....1 +1 internal
 Temp inputs:.....2
 Current inputs:2
 Digital inputs:.....6

Features continued

Log files:

Daily statistics:.....Min., max. and average on analog input channels with date and time stamp
 Battery current, rectifier current and AC mains voltage for last 90 days
 Event log:.....All events such as alarms, power on, change of state on digital inputs or other 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 peripherals

Electrical

Input voltage: 17 to 65VDC
 Current:<100mA @ 48VDC
 <200mA @ 24VDC

Mechanical

Dimensions:
 mm:.....96.4H x 123W x 247D
 in:.....3.4H x 5W x 9.7D
 Mounting:Modular controller for 1.8kW shelves
 Weight:1.8kg (3.9lb)

Environmental

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

Related Components

036-200-20:.....External I/O terminal block connector kit

Standards

Safety:UL/CSA C22.2 No 60950-1
 IEC/EN 60950-1
 CE marked
 EMC:ETSI 300 386
 Emissions:.....CFR47 (FCC) part 15 Class B
 ICES-03 Class B
 EN55022 (CISPR 22) Class B
 C-tick (Australia)
 Immunity:.....EN 61000-4-2,-3,-4,-5,-6