

# **BC2000 Series**

# System Controller

## **Overview**

The BC2000 system controller is a state-of-theart unit that provides alarm notification, complete system control, and advanced battery monitoring – with a simple, easy-to-use interface. As with all Eltek controllers, the BC2000 controller lowers overall network power management costs by putting the power of real-time information at your fingertips.



# **BC2000 SERIES**

SYSTEM CONTROLLER

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### **CONTROLLER HIGHLIGHTS**

#### **Convenient Design**

The BC2000 controller is used in Eltek's Compact and Integrated systems. A simple "plug-and-play" design makes it easy to install or replace an existing controller. Failsafe architecture ensures that power systems continue to operate if the controller is disconnected.

#### Multiple Interfaces

System control and monitoring can be executed through both local and remote interfaces. Local interface consists of a control panel with a back-lit Organic LED display, two soft buttons, and a scroll knob. Remote monitoring and control is possible via an Ethernet port and supports HTTP, SNMP, TELNET, and TL1 protocols.

#### **Battery Management**

Battery management provides such features as float voltage control, battery current limit, battery boost (equalizing), battery discharge tests, thermal runaway protection, thermal compensation, and lowvoltage disconnect monitoring.

#### **Configurable Alarms**

System alarm monitoring consists of six form-C relays, audible alarm alerts, and four peripheral input ports – all fully configurable.

#### Expansion

An I2C expansion port is provided for multishelf control. A controlled area network (CAN) bus permits expansion with peripheral devices.

### KEY FEATURES

- EASY "PLUG-AND-PLAY" INSTALLATION
- MULTI-LEVEL PASSWORD PROTECTION
- WEB INTERFACE THROUGH INTERNET BROWSER
- TELNET INTERFACE
- SNMP COMMUNICATION WITH UP TO FOUR IP ADDRESSES
- TL1 PROTOCOL SUPPORT
- SYSLOG EVENT LOG WITH UP TO TWO IP ADDRESSES
- SIX FORM-C ALARM RELAYS
- FOUR AUXILIARY INPUT PORTS FOR TEMPERATURE PROBES AND/OR EXTERNAL ALARMS
- ADJUSTABLE REAL-TIME CLOCK
- MULTIPLE BATTERY DISCHARGE TEST (BDT) GRAPHS
- BATTERY THERMAL RUNAWAY PROTECTION

# **BC2000 SERIES CONTROLLER**



## **CONTROLLER DETAILS**

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Local Interface	Display with back-lit OLED, two function buttons, and scroll knob
Remote Interface Port	10/100BASE-T Ethernet
Remote Interface Protocols	HTTP, TELNET, SNMP, and TL1
SNMP Alerts	Alarm indication alerts to as many as four IP addresses via SNMP traps
SNMP Heart Beat	Controller-generated ping indicates operation
Syslog Event History	Alarm and event history reported to as many as two IP addresses via Syslog
Auxiliary Input Ports	Four configurable input ports for temperature probes, distribution alarms (NO/NC), or auxiliary alarms (NO/NC)
Output Alarms	Six form-C dry contact relays
Alarm Relay Configuration	Fully configurable alarm mapping via remote web interface
Alarm Indicators	Green and red LED lamps and audible alert tones
Audible Alarm	Audible alerts can be set to indicate major, minor, major and minor, or any alarm triggers
Event Log	Stores up to 250 events
Battery Discharge Test (BDT)	Manual, auto, and up to 12 user-scheduled start modes
BDT Results	Voltage/Current vs. Time graph, pass/fail indicators, and up to eight saved test results
Battery Boost (Equalizing)	Manual mode and three automatic modes: periodic, battery current, and AC fail
Battery Thermal Compensation	High and low temperature compensation to maintain proper VRLA battery temperature
Battery Current Limit	Available in systems with battery shunt or low-voltage disconnect (LVD)
Rectifier Current Limit	Limits individual rectifier current output
System Presets	Three factory-configured sets of system values
Multi-shelf Control	Available Inter-Integrated Circuit (I <sup>2</sup> C) port to connect to an expansion controller
Password Protection	Multi-level protection for remote and local interfaces (any character except period, comma, and semi-colon)
OPERATION RATINGS	
Form-C Relay Rating	Up to 0.5A at 60V
Storage Temperature	-40 °C – 85 °C
Operating Temperature	-40 °C – 75 °C
Voltage Accuracy	±1.0%
Current Accuracy	±2.5%

#### **CONTROLLER CONNECTIONS**

	Ethernet (4) Input ports (4) Input ports (2) Port (2) Port Alarm Cable
CAN (Controller Area Network) bus	Provides a port for interface with Eltek peripheral monitoring (PM) devices
Ethernet Port	Computer access port for HTTP, Telnet, or SNMP communication
Expansion Port	I2C interface for communication with expansion controller (EC) or LVD controller
Input ports	Four identical input ports that work as normally-open or normally-closed auxiliary alarm connec- tions or temperature probe input connections
Alarm Cable	Twenty-pin connector for an output alarm cable. Provides normally-open and normally-closed outputs for each of six output alarm relays

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Specifications are subject to change without notice