Flatpack MCU |

Monitoring and Control Unit

The Eltek range of monitoring and control units has been specifically developed to provide indication and management for DC standby power systems used in telecommunications and industrial applications

The Flatpack MCU is the Monitoring & Control Unit in Eltek's Flatpack Power Supply Systems. The unit allows both local and remote monitoring/control of the Power Supply System via front keypads and LCD and an RS-232 serial interface.

The Flatpack MCU offers features like

• Front panel LCD and keypad for on-site service (local operation)

• RS-232 interface for PC connection or remote monitoring/control via modem or SNMP agent

• 6 user programmable relay outputs for traditional remote monitoring (extendable to 11 relays)

• 5 user programmable inputs for monitoring of other equipment on site

• Battery monitoring and testing without site attendance

• Temperature Compensated Charge Voltage for increased battery lifetime

• Hot Plug-In

• Remote control via Modem, WebPower or SNMP adapter

• Modem Callback functionality

• Password protected operator access levels

• Alarm/event log with time and date

• Site Text/ID

• Windows-based PC communication software (WinPower Silver)

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REMOTE MONITORING/CONTROL

From a PC running WinPower via Modem
With the Windows-based "WinPower" communication program installed on a remote computer, the system can be monitored and controlled via modems.
Modem Callback functionality can be used to minimize the traffic on the public telephone network.

From an NMS via Ethernet (SNMP)
With an external SNMP agent connected to the Flatpack MCU, the system can be monitored and controlled from a Network Management System through Ethernet on Simple Network Management Protocol (SNMP). (see SNMP adapter datasheet 240278.929.DS3)

From a WebPower adapter
With an external WebPower adapter connected to the MCU, the system can be monitored and controlled via Internet Explorer (see WebPower datasheet 240278.958.DS3).

Using alarm relays (voltage free contacts)
6 internal failsafe alarm relays provide voltage free contacts that can be connected to equipment used for traditional alarm monitoring. 5 extra relays can be delivered as an option, providing a total of 11 alarm relays.

LOCAL MONITORING /CONTROLING

From a PC running WinPower
WinPower can also communicate with the Flatpack MCU through an RS-232 C serial cable.

Using front keypads and display
Flatpack MCU uses menu driven software to provide a user-friendly interface for local operation via a keypad and an LCD. In normal operation, the front LCD will display the output voltage, battery current, rectifier current and load current. If any alarm is activated, a red LED is lit in the front panel, the alarm text appears in the LCD and the corresponding alarm relay is activated.

FEATURES

- Output Voltage Measurement
- Load Current Measurement (calculated)
- Battery Current Measurement
- Rectifier Current Measurement
- Battery Temperature Measurement (optional)
- Load/Battery Disconnect
- Alarm Level Settings
- Battery Testing (interval and manual)
- Battery Test Information (2 latest tests)
- Setup of Battery Data
- Alarm Log
- Parameter Calibration
- Clock and Date adjustment
- Real Time Clock with Battery Backup
- Site Text/ID
- Test of Relay Outputs
- Voltage Level Programming
- Battery Boost Charging
- Battery Cable Voltage Drop Compensation
- Temperature Compensated Charging
- Modem Callback
- Load/Save setup with WinPower (from v5)

AVAILABLE ALARMS

- High Battery voltage 1 (Level 1)
- High Battery voltage 2 (level 2)
- Low Battery voltage 1 (Level 1)
- Low Battery voltage 2 (Level 2)
- Load Disconnect (Voltage or timer)
- Battery Disconnect (Voltage or timer)
- Battery Fuse Alarm
- Load Fuse Alarm
- High Battery temp. 1 (level 1)
- High Battery temp. 2 (level 2)
- Low Battery temp.
- Battery Pre Alarm (75% < capacity < 85%)
- Battery Failure (capacity < 75%)
- Mains failure
- Rectifier failure (1 module)
- Critical Rectifier failure (> 1 module)
- Symmetry Failure
- Battery Test (ongoing test)
- Digital Inputs 1-5 (w. programmable names)
- Rectifier Capacity w. programmable level
- Low temp. w. programmable level
- Temperature probe
- Battery discharge

SPECIFICATIONS

Input Voltage: Prepared for 24/48/60 VDC nominal system voltages
Dimensions: 123 x 43 x 177mm (WxHxD) (4.85 x 1.7 x 6.97")
Weight: 0.7kg (1.55lbs)

ORDERING INFORMATION

Part no.	Description
242072.600	Flatpack MCU
351300.013	Operation Guide, Flatpack MCU

242072600.DS3 v.06