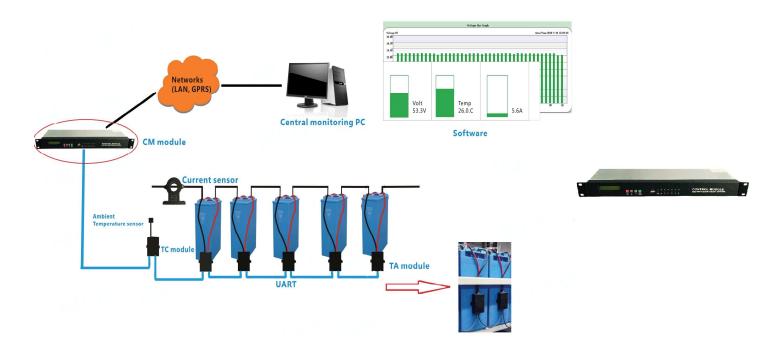
Control Module



OVERVIEW

The CM-02N control module is a front-end module data collection device using ARM technology for comprehensive data processing and communication. CM-02N can manage up to 6 battery strings and meets Modbus/RTU and SNMP specifications.

- Collects front end sensor data, analyzes, stores and uploads the data
- Manages max. 6 strings
- Software monitors battery state 24/7
- Keyboard and LCD display allow user to set parameters and query data directly
- Meets Modbus/RTU and SNMP specifications



FEATURES

- Reads data from battery sensors. Processes, analyzes, stores and uploads data
- Auto-analyzes battery state and identifies cells requiring replacement or maintenance
- Capacity to store historical data
- •Flashing alarm indicator on front panel with details shown on LCD display
- With keyboard and LCD display

- RS485, Ethernet Port, meets Modbus/RTU, Modbus/TCP and SNMP specifications
- PC software is available for management of multiple strings, real-time querying and historical data
- Supports local and remote updates
- PC software available for management of multiple strings, real time querying and historical data

SPECIFICATIONS

Environmental

Operating temperature: -5°C~50°C, 5%~90%RH Storage temperature: -10°C~70°C, 5%~90%RH

Atmospheric pressure: 80~110kPa

Performance

Max: manage up to 6 strings
Max: up to 300 batteries per string

Max: monitor 960 batteries

Usage

2V, 6V or 12V batteries, capacity less than 2000AH

Power Requirements

85~264VAC,100V~370VDC,10W

Protection

Overcurrent protection; 0.4A fuse

Measurement Range & Accuracy

String voltage: $20~800V, \pm(0.5\%+0.2V)$ Cell voltage: $1.5~2.5V, \pm(0.1\%+1mV)$

9~15V, ±(0.1%+10mV)

Internal resistance: $100~99999u\Omega$ Battery temperature: $5^{\circ}C~50^{\circ}C$, $\pm 1.5^{\circ}C$

String current: 0~500A, ±2% (Full scale)

Installation

On battery rack or in 19-inch cabinet

Communications Interfaces

RS485, Ethernet Port, meets Modbus/RTU, Modbus/

TCP and SNMP specifications Insulation: 2000VAC

Dry Contact

1 dry contact, DC220V/1A

Durability

MTBF 100,000 hours

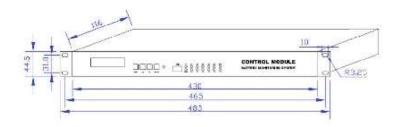
Weight

CM module: 1.8Kg

Standards

CE ROHS UL61010-1

DIMENSIONS



(Unit: mm)

OPTIONS

1. Software

PC software available for data retrieval from CM and management of multiple strings, real time querying and historical data.

APPLICATIONS

- UPS
- Telecommunications
- Battery supplied applications
- Utilities
- Fire & Safety systems
- Remote monitoring



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