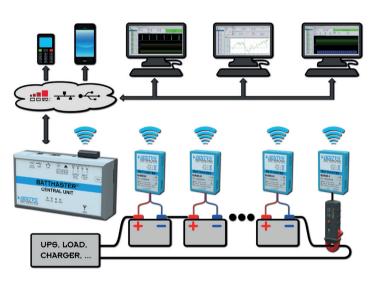
BATTMASTER®



Wireless Battery Monitoring System



中国统一热线4006-022-002 深圳北京上海guan@tuizer.c

BMS无线电池监控系统说明书 进口蓄电池监测系统样本pdf资料

 ${\tt BATTMASTER}^{\circledR}$ is the first wireless (license free) battery monitoring system.

It can be used in various fields such as:

- •UPS
- •TELECOM
- •ELEVATORS
- CRITICAL BATTERY POWERED SYSTEMS

Application examples:

- -protecting mission critical systems
- -evaluating battery compliance with the system
- -evaluating battery performance
- -dimensioning new battery based systems
- -supporting claims related to system behavior

Major benefits:

- -installation, maintenance and operating costs decrease
- -control over the battery operating conditions
- -battery failure prediction
- -system reliability
- -allows easy battery system's expansion

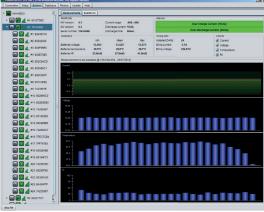
BATTMASTER® measures and stores battery voltage, temperature, current and internal resistance data for up to 1024 batteries/system. User settable alarms related to these parameters can be generated through E-Mail, LAN, SMS or dry contacts.

The **built-in clock** helps you to keep a precise history of the monitored parameters.

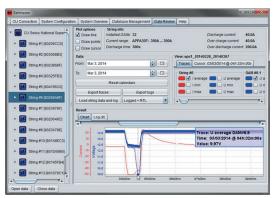
BATTMASTER® has a good measurement precision and a complete, user-friendly database. The recorded data (either on PC or on SD cards) can be easily transferred and processed as spreadsheets or graphs.

BATTMASTER® powerful application software (operating under MS Windows®) allows a precise analysis of the logged data and eases your decision making process.

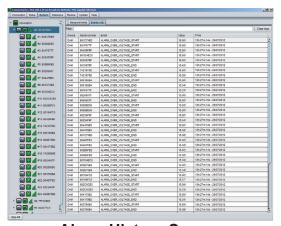
BATTMASTER®
YOUR LOYAL PARTNER!



System Status Screen



System History Screen



BMS无线电池监控系统说明书、进口蓄电池监测系统样本pdf资料 Technical Specifications

System Components

- · Central Unit (CU) 1 per system
 - Wireless data collector unit
 - 100-240V power supply, backup batteries (~1.5h)
 - Supports up to 1024 DAMs and 64 IDAMs
 - Provided with 4GB SD card (about 5 years of logging)
 - 100BASE-TX Ethernet, full speed USB 2.0, Modbus/TCP
 - Embedded webserver for remote monitoring
 - Manages e-mail and SMS notifications
 - Stores user settable alarm thresholds

· Data Acquisition Module (DAM) - 1 per battery

- Wireless voltage, temperature and internal resistance logger

Current Acquisition Module (IDAM) - 1 per string of batteries

- Wireless current and environmental temperature logger
- Powered by battery or external power supply

BATTMASTER® software

- System configuration and monitoring
- Database of events and measurements, data review
- Real time system monitoring
- Data export to .CSV or .PNG formats

Communication

- Wireless (license free frequency, proprietary network protocol) between (I)DAMs and CU, range 100m (open air)
- •USB, LAN between CU and PC
- GSM (Quad Band) for SMS notifications
- Dry contacts for monitoring system alarms
- · Isolated Digital Inputs for external custom control

Monitored Battery Types

2...12V lead acid batteries (other chemistries on request)

Monitored Battery Parameters

- Voltage (measurement accuracy: ±1.5%)
- Temperature (-20...80°C, ±2°C)
- •Internal resistance (1...300m Ω , ±10% or ±1m Ω)
- Discharging cycles
- Current: 300A range ±(2.4% +3A) / 600A range ±(4% +4A)
- Battery operating time

Redundancy

- •2 x NiMH rechargeable batteries for CU backup (~1.5h)
- (I)DAMs store measures and events in case of temporary communication failure

Mechanical

- •CU: size 82x150x46mm, weight 250g, ABS enclosure
- (I)DAM: size 81x56x21mm, weight 40g, ABS enclosure, with VELCRO tape for fixing
- Current Clamp: size 185x55x40mm, weight 180g (300A) size 203x70x37mm, weight 230g (600A)



中国统一热线4006-022-002

4006-022-002 深圳北京上海guan@tuizer.com