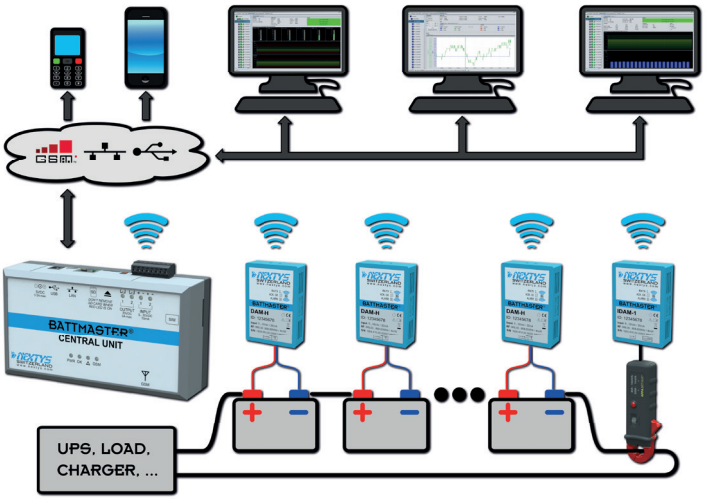
BATTMASTER®



Wireless Battery Monitoring System

SWITZERLAND

www.nextys.com

BATTMASTER® 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®

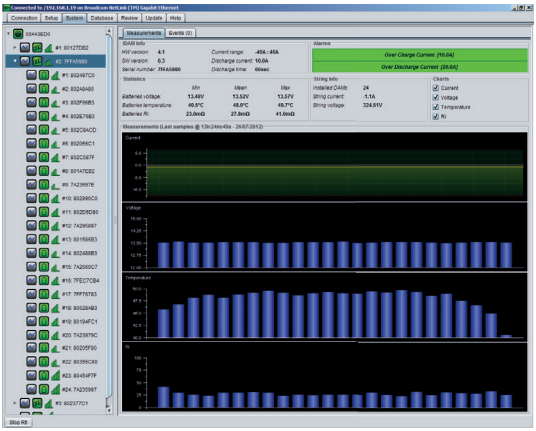
YOUR LOYAL PARTNER!

Central Unit (CU)

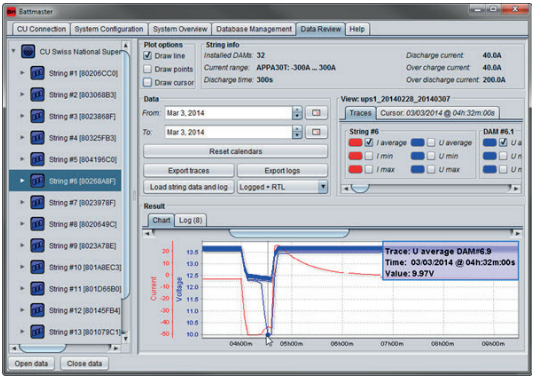
Data Acquisition Module (DAM)

Current Data Acquisition Module (IDAM)

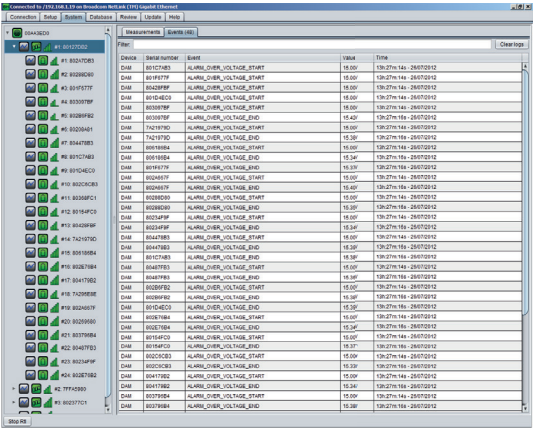
with Current Clamp



System Status Screen



System History Screen



Alarm History Screen

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...300mΩ, ±10% or ±1mΩ)
- **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)

Specifications subject to change without notice

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