

NEVER RUN OUT OF JUICE.

BATTERY MONITORING WITH BAT-LOGG®



**SIMPLY
MAXIMIZE
YOUR SAFETY.**



WITH AN EMERGENCY POWER SUPPLY THAT MONITORS ITSELF.



Gain a big plus in safety!

With the new battery monitoring system BAT-LOGG®, RP-Technik now offers you a future-oriented solution for the fully automatic, continuous monitoring of the batteries of your UPS systems.

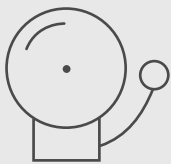
The automatic inspection of every single battery block not only increases the safety and reliability of your UPS system, but also significantly reduces maintenance effort and the associated costs.

5 GOOD REASONS FOR CHOOSING BAT-LOGG®



BAT-LOGG® gives you safety.

BAT-LOGG® measures the voltage and temperature of each individual battery at short intervals, documents the measured values and automatically reports errors. This complete check of the battery condition makes it possible to detect defects in good time and replace defective batteries before they affect the others. This ensures operational reliability at all times.



BAT-LOGG® monitors and warns proactively.

BAT-LOGG® collects all measurement data in a database. The system is able to detect, document and communicate errors. For example, BAT-LOGG® can automatically inform you of errors by email. This shortens response times.



BAT-LOGG® saves time and money.

BAT-LOGG® simplifies scheduled maintenance operations by eliminating the need to manually measure and document each battery. Measurement and documentation are fully automatic. This considerably reduces the time and costs for maintenance.



BAT-LOGG® is installed in no time.

BAT-LOGG® was developed for easy installation in tight mounting conditions. The sensors are conveniently and safely connected to the batteries with fork-type cable lugs. The system consists of just a few components and requires only minimal configuration*.



BAT-LOGG® improves occupational safety.

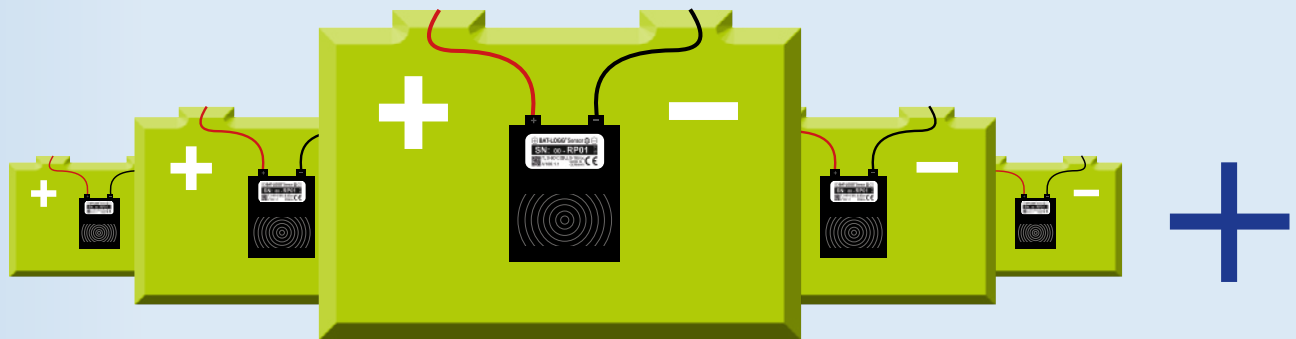
BAT-LOGG® puts an end to the manual measurement of each individual battery. This reduces the occupational risk of electric shock, especially if the batteries are installed in confined spaces.

* Setting the number of batteries and (if desired) email notification. The assignment of the sensors to the batteries takes place semi-automatically with only a few mouse clicks for whole strings, strictly observing the recommended installation procedure.

THAT'S HOW SIMPLY BATTERY MONITORING WITH BAT-LOGG® FUNCTIONS

The BAT-LOGG® Sensor module

Each individual battery is equipped with a BAT-LOGG® Sensor module that measures voltage and temperature 5 to 6 times per minute. The measurement data is transmitted to the BAT-LOGG® Terminal. Data transmission is not only carried out in real time, but also repeatedly and redundantly over a longer period of time, which contributes to high robustness.



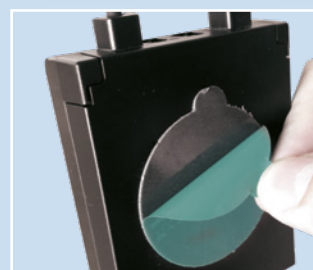
The BAT-LOGG® Sensor module.



BAT-LOGG® robustly transmits its via a BUS line.



Easy and time-saving installation with fork-type cable lugs.



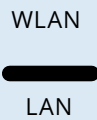
Simply stick to the housing with the adhesive point.

The BAT-LOGG® Terminal

The BAT-LOGG® Terminal is the control centre of the battery monitoring system. It consists of one or more BAT-LOGG® Interface modules and a central unit based on Linux. Here the measurement data sent by the sensors and received by the interface module are checked and stored in an SQLite database. The BAT-LOGG® Terminal can be integrated into an existing IT infrastructure via LAN or WLAN.

The BAT-LOGG® Software

The BAT-LOGG® Software in the terminal checks the measurement data against the set error criteria and reports any errors and other events, for example by sending an email. It also provides a web interface for configuration, measurement data display, error analysis and data backup. Access can be made from a device with a web browser (PC, tablet or smartphone) that is connected to the same network.



The BAT-LOGG® Terminal with BAT-LOGG® Interface and central unit.

The web interface of the BAT-LOGG® Software with access via notebook, tablet or smartphone.

The user interface and all data stored by BAT-LOGG® can be accessed via a web browser from any PC, tablet or smartphone connected via the network – regardless of the operating location of the system. Automatically generated messages ensure that you can react promptly in case measurement data of individual batteries becomes conspicuous.





Until now: Despite time-consuming manual on-site inspections, the availability of the emergency power supply was not 100 percent guaranteed.



“We now need significantly less time for battery maintenance. And the elimination of manual measurements has considerably reduced the occupational risk.”



BAT-LOGG® SYSTEM PROPERTIES

Monitored battery type	Lead accumulators with 12 V block voltage (nominal)
Maximum system voltage	800 V DC
Voltage measuring range	8.0 V...16.0 V
Temperature measuring range	-20°C...+60°C
Supported number of sensors	Up to 160 BAT-LOGG® Sensor modules
Measuring frequency	approx. 5–6 measurements per minute

Data recorded

- Battery voltage
- Battery temperature
- Discharge-low voltage per discharge-charging cycle
- Sensor total operating hours
- Sensor operating hours by voltage and temperature range

Monitoring functions

- Monitoring of temperature and voltage values
- Monitoring of the measurement data input from all sensors
- Message in case of
 - fault in measurement data transmission or communication
 - over-/undervoltage on individual battery
 - voltage deviation of a battery from average value of remaining batteries too large
 - over-/undertemperature on individual battery
 - temperature deviation of a battery from average value of remaining batteries too large
 - warning and error barriers for temperature and voltage freely adjustable

Database

- Continuous recording of measurement data
- Recording of all messages and events
- Manual logbook entries
- Data volume approx. 1 MB per sensor and year (reference value)
- Backup function

Other functions

- Grouping of sensors/batteries according to battery strings
- Web frontend via LAN or WLAN to display all measured values and data
- Email notification in case of messages and events
- Email status report on freely definable dates

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