



# ALPAIS

BATTERY MONITORING SYSTEM  
FREQUANTLY ASKED QUESTIONS



## Introduction

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This document is prepared for understanding what is a battery monitoring system. Especially, how the Alpais Battery Monitoring System can cover the battery owner's different requirements.

You may always ask your other questions to the team by using our contact information at the bottom of the pages.

## Frequently Asked Questions

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1. What is a battery monitoring system?
2. Why do I need a battery monitoring system?
3. How does it work?
4. I have a periodic maintenance agreement with my UPS or battery service provider. Why do I still need a battery monitoring system?
5. I already have a monitoring system in the UPS or Rectifier. Is a battery monitoring system necessary for my operation?
6. Instead of installing a battery monitoring system, I can reserve some more resources and replace all my batteries. Should I still use a battery monitoring system?
7. Installing the Battery Monitoring System is a cost for my business. Will it benefit me financially?
8. Why Alpais?
9. We don't want to install your software on our company server. Is there a solution?
10. We use a general monitoring system (SCADA, DCIM, etc.) and we want to use it to monitor the batteries as well. Is there a solution?
11. We have more than one site for batteries. Do we have to use separate systems to monitor them?



## 1. What is a battery monitoring system?

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A battery monitoring system (BMS) is a comprehensive solution designed to monitor the health, performance, and status of batteries in real-time. It typically includes sensors, data acquisition hardware, software, and analytics capabilities to provide insights into battery conditions, allowing for proactive maintenance and optimization of battery systems.

## 2. Why do I need a battery monitoring system?

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A battery monitoring system is essential for ensuring the reliability and performance of battery backup systems. It allows you to:

- Monitor battery health and detect issues early.
- Optimize battery performance and extend lifespan.
- Prevent unexpected downtime and equipment damage.
- Improve overall system reliability and operational efficiency.

## 3. How does it work?

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A battery monitoring system works by continuously monitoring key parameters of batteries, such as voltage, current, temperature, and internal resistance. Sensors collect data from individual batteries, which is then processed and analyzed by the monitoring system's software. This data provides insights into battery condition and performance, enabling informed decision-making and proactive maintenance actions.

## 4. I have a periodic maintenance agreement with my UPS or battery service provider. Why do I still need a battery monitoring system?

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Your periodic maintenance agreement may not provide real-time insights into battery health and performance. The currents passing through the strings, and the temperature of each battery are not measured during maintenance, furthermore, manual recording of the measured values opens the way for human errors and prevents long-term monitoring of the data. On the other hand, a battery monitoring system complements traditional maintenance practices by offering continuous monitoring and early fault detection, reducing the risk of downtime and costly disruptions.



## **5. I already have a monitoring system in the UPS or Rectifier. Is a battery monitoring system necessary for my operation?**

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Existing monitoring systems may not offer detailed insights into individual battery health. A dedicated battery monitoring system provides granular monitoring, ensuring early detection of issues and optimal battery performance.

## **6. Instead of installing a battery monitoring system, I can reserve some more resources and replace all my batteries. Should I still use a battery monitoring system?**

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While replacing batteries may address immediate concerns, it's a costly and reactive approach. A battery monitoring system allows you to maximize the lifespan of existing batteries through proactive maintenance and optimization, ultimately saving costs and minimizing disruptions.

Furthermore, even the newly purchased batteries may be faulty, and faulty batteries cannot be detected by systems such as UPS or rectifiers before they affect neighboring batteries and reach the point where the entire battery group needs to be replaced. However, with a battery monitoring system, the condition of each battery is monitored from the first installation with new batteries, and batteries with manufacturing defects are detected early. A permanent battery monitoring system provides you with individual battery measurements and alarms from the first moment, it provides you with the advantage of early detecting and replacing batteries with production defects.

## **7. Installing the Battery Monitoring System is a cost for my business. Will it benefit me financially?**

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Yes, investing in a battery monitoring system can provide significant financial benefits in the long run. By optimizing battery performance, preventing downtime, and extending battery lifespan, it delivers a significant return on investment while enhancing operational efficiency and reliability.

## **8. Why Alpais?**

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Alpais offers a state-of-the-art battery monitoring system tailored to the unique needs of modern businesses. Our system provides:

- Comprehensive monitoring capabilities for real-time insights into battery health and performance.
- User-friendly software interface for easy management and analysis of battery data with the visualization of graphical, bar, and table tools.
- Proactive alerts and notifications for quick issue resolution and downtime prevention.



- Expert support and services for seamless integration and ongoing optimization of battery systems.
- Multiple users with different authorization levels allow you to have full control of the battery assets.
- “Easy to install and use design” ensures much less time and cost for the installation and replacement of the batteries.
- Well-written Manuals allow understanding of the full perspective of the Alpais experience for both users and engineers.

## **9. We don't want to install your software on our company server. Is there a solution?**

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Absolutely. Alpais offers a solution with the "Control Module with an Embedded Server" device, eliminating the need to install software on your company server. With this approach, you can access the monitoring system through a secure web-based interface, ensuring data accessibility without server dependency.

## **10. We use a general monitoring system (SCADA, DCIM, etc.) and we want to use it to monitor the batteries as well. Is there a solution?**

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Yes, Alpais offers seamless integration capabilities with existing monitoring platforms such as SCADA or DCIM. Our system supports various protocols like Modbus RTU, SNMP, and Modbus TCP/IP, allowing easy data export to your preferred system for consolidated monitoring.

## **11. We have more than one site for batteries. Do we have to use separate systems to monitor them?**

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No, you don't need separate systems. Alpais offers multi-site monitoring capabilities, allowing you to monitor batteries across multiple locations within a single, centralized system. With unified monitoring, you can streamline operations, ensure consistency, and enhance visibility across your entire battery infrastructure.

## **About Alpais**

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*Alpais is Turkiye's first and only battery monitoring system with an original design, with its unique technology, innovative product development, and customer-oriented services for UPS & Data Center and other applications.*