

**b.guard**

Condition Monitoring System  
Planning. Detecting. Preventing.



**bachmann.**

[www.bachmann.info](http://www.bachmann.info)

CMSlight EN | Subject to technical changes  
© 10/2024 by Bachmann electronic



the power to control

**bachmann.**

# CMSlight – the Game Changer

Condition Monitoring Systems – and you win the game.

## 4 REASONS FOR CMSlight

### Reduces system costs

CMSlight was designed with the goal of achieving the lowest possible costs for retrofits and replacements. The hardware is limited to the reliable collection of dedicated measurement data and sending it to a central server unit for further processing, data analysis and diagnostics.

### Generates precise maintenance and repair planning data

CMSlight uses reliable and robust IEPE sensors and can image high sampling rates. The result is high availability and quality of the aggregated measurement data, which enables a reliable maintenance strategy.

### High level of standardization, low costs

CMSlight fits seamlessly into the highly efficient and proven WebLog Suite with its recorded measurement data. Here, the data from all Bachmann CMS and third-party systems is processed at the highest level in a standardized way and, if necessary, merged with other measurement and operating data.

### Low installation costs

CMSlight is designed to be ultra-compact and easy to use, so that only the slightest effort is required for installation and commissioning.



simply  
suited  
CMS

 [energy.industry.maritime](http://energy.industry.maritime)



# Definitely a Game Winner for our Customers

*CMSlight – Quality data equals quality results*

Game Changer: With our **CMSlight**, we are opening up the lower price sector for professional condition monitoring systems. At the same time, we remain fully committed to our quality standards, which makes **CMSlight** a game changer for our customers in particular.

The basis of reliable monitoring is the high-quality acquisition of sensor signals. **CMSlight** makes no compromises and feeds the recorded data into our server-based WebLog suite, where it is analyzed and informative reports are generated.



**Smart solutions make the retrofit or replacement quickly ready for use.**

**CMSlight** perfectly meets the market demand for a simple yet high-quality and secure CMS solution at lowest costs. The use of IEPE sensors from Bachmann or the use of existing IEPE sensors enables a wide range of applications when retrofitting or replacing old CMS. In this way, **CMSlight** is particularly suitable for monitoring the drivetrain of existing systems with a strong focus on minimizing costs to minimize the risk of undetected drivetrain failures.



**Quick installation:**  
**ULTRA-SLIM**  
30 x 20 x 8 cm



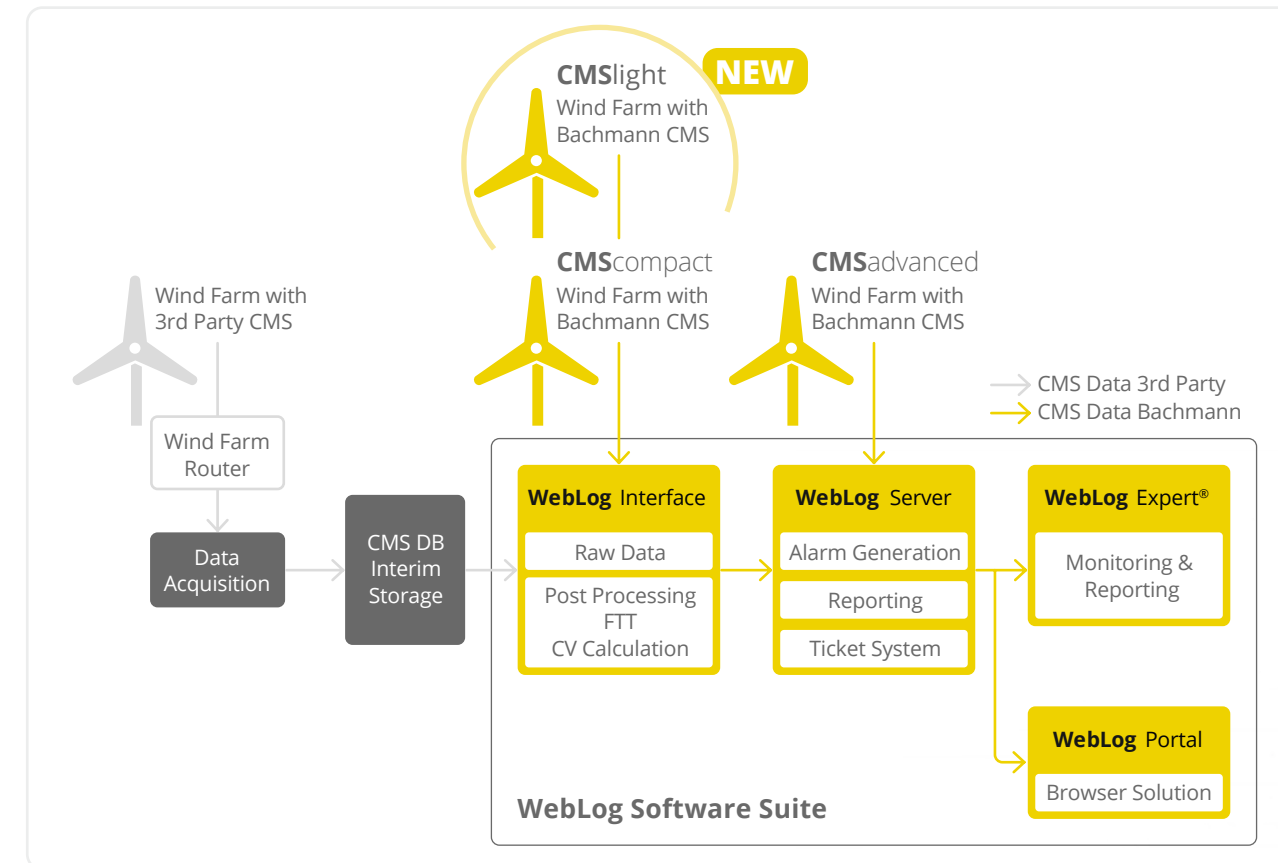
**Easy handling:**  
**ULTRA-LIGHTWEIGHT**  
~ 2,6 kg



**Low costs:**  
**ULTRA-PRICE WORTHY**

## The Benefit – Comprehensive

The WebLog suite not only accesses Bachmann's own CMS data, but also processes measurement data from 3rd party CMS. Our system solution is best equipped for all wind farm configurations and also reduces training and system maintenance costs – just one software for monitoring, alarm generation, reporting, ticketing, and much more.



## IEPE in place of MEMS – reliable sensors

**CMSlight** supports high-quality IEPE sensors and enables sampling rates of up to 25.6 kHz. In combination with high sampling rates, IEPE sensors ensure a significantly higher signal quality compared to low-cost MEMS sensors, especially for critical low-speed components. They are also much more robust and durable. High data quality allows reliable diagnostics and thus actively offers operational safety. Only the best is good enough for our customers.

## The Benefit – Clarity

Installation and operating costs are minimal. The results of data analysis considerably improve the reliability of information for more effective maintenance and repair scheduling.

»*CMSlight is our 100% competitive solution for simple retrofitting and replacement. And all in the highest Bachmann quality.*«

**Marc Thomsen**  
Product Manager  
Bachmann Monitoring GmbH

# Overview of Bachmann CMS solutions

*Performance comparison*

All product lines are based on quality, robustness and intelligent system design. **CMSlight**, **CMScompact** and **CMSadvanced** are designed for different requirements and areas of application.

**CMSlight** is the optimal low-cost solution that focuses on basic drivetrain monitoring, while **CMSadvanced** delivers a complex, expandable, and modular condition monitoring system for comprehensive wind turbine monitoring. **CMScompact** fits in between as a middle-class solution.



Functions	CMSlight	CMScompact	CMSadvanced	Extended applications for CMSadvanced
High-quality drivetrain monitoring	✓	✓	✓	
Sampling rate up to	25.6 kHz	51.2 kHz	51.2 kHz	
IEPE Sensors	✓	✓	✓	
Optional field bus support		✓	✓	Use of external sensor information for advanced signal processing and data correlation
Oil particle counting		✓	✓	Connection of oil particle counters
Extended range of functions and modular expandable input channels			✓	Extension of the sensor scope for complex drive train designs and SHM tasks and everything for perfect customization
DNV certified			✓	Compliance with offshore requirements

## Specification

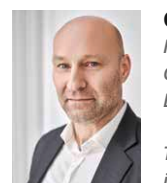
- Server-based data processing using WebLog Interface
- 24 VDC power supply (power consumption < 10 W)
- 8 IEPE channels, 2 speed inputs, 2 analogue inputs
- Very compact and light cabinet

## We account for everything

**CMSlight** provides reliable data aggregation and secure data transfer to our WebLog Interface – where all calculations are performed. **CMSadvanced**, on the other hand, performs calculations locally, enabling status information to be utilized directly in system control. For example, to protect components through rapid intervention.



You will find more information on [bachmann.info](http://bachmann.info)



**CONTACT**  
Holger Fritsch  
General Manager  
Bachmann Monitoring  
T: +43 5522 3497-0  
info@bachmann.info