

**Ballast Water Monitoring A/S manufactures the world's first real-time performance monitor for ballast water treatment systems in shipping.**

With the bw monitor you get in-line, on time data on the performance of your ballast water treatment system.

### **Performance monitoring in environment and shipping**

Ballast water treatment systems or management systems (BWTS or BWMS), are costly and their performance is difficult to measure. When caught in a port state control it is obviously too late for any corrective use. Continuous monitoring is a key component in performance analysis everywhere in shipping. The bw monitor automatically and continuously surveys the functionality and efficacy of your BWMS directly in the ballast line. It monitors your ballasting process during treatment in due time for adjustments to be made. When aligned to your BWMS you can include it in your predictive maintenance system.

### **Company profile**



### **The bw monitor works with all systems and all waters**

The bw monitor is permanently installed onboard. It measures and reports on the performance of filters and the biological efficacy of the disinfection unit. The bw monitor automatically adjusts to the characteristics of the incoming water, and gives the operator an instant status indication of the BWMS. Our monitoring technology works with all BWMS and can be suited to your specifications.

Installation is simple and operation is cheap. The bw monitor has passed all environmental tests: it has been tested in IMO G8 and USCG land-based full-scale facilities as well as onboard vessels. The monitoring system comprises two stainless steel sensor units, a control unit in IP44 cabinet, and a display unit with a simple user interface. Installation is straight-forward.

The sensors are fitted with DN150 flanges and easily mounted on prepared studs in the ballast line: they can be operative in just a few hours. The bw monitor is completely automatic: it uses no consumables and only minimal energy, and its operation does not require any interaction by the crew.

### **Indicative D-2 compliance**

The laser and fluorescence methodology provides you with performance data on filter efficacy and immediate kill rate according to criteria for your BWMS. Although, the bw-monitor is not a port state control system for D-2 compliance it can be modified to provide the data used to assess indicative compliance with International Maritime Organization IMO standards. The bw monitor can be used to assess treated water on discharge, or installed in a sideline used for monitoring equipment - whatever is most compatible with your BWMS' design.

### **Logging and transmitting data**

The bw monitor logs real time data and provides a tamper-proof report of indicative compliance data for you – and for port state control. The bw monitor can also provide data via the internet on the functionality of a BWMS directly to the shipowner. The data can also be shared with the BWMS manufacturer for improvement or guarantee purposes with no hassle to the crew. The bw monitor can be accessed remotely for software modification and algorithm updates. All data traffic is protected by end-to-end encryption. Data is transmitted in small compressed packages and will select the cheapest connection available.

### **Ballast Water Monitoring A/S**

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