

## MSI Smart Ballast Water Control Systems

### Trusted solutions for ballast water treatment applications

## Control made easy

## The perfect fit for ballast water treatment systems

### Introduction

The IMO International Convention for the Control and Management of Ships' Ballast Water and Sediments (BWM) has been approved and will enter into force on September 8, 2017. Deemed as an environmental necessity, it creates an enormous operational challenge for the Maritime Industry and liability to vessel owners and crews alike.

## Reduce Risks of Compliance Using Smart Ballast Water Treatment Controls

The **MSI** Smart Ballast Water Control System monitors water quality in real time and allows the vessel to continue ballast water operations in heavy solids and/or turbid water conditions. It will help keep filters and biocidal systems from overloading causing a system fault and automatic shutdown.

The **MSI** Smart Ballast Water Control System can be configured to replace and manage your complete BWM System.



Overboard discharge of ballast water

## MSI's perfect fit

World Class BWM systems will use ballast water controls and software similar to the patented system produced by Maritime Solutions, Inc. (**MSI**). The **MSI** Smart Ballast Water Control System monitors and adjusts BWM system operation based on fluid intake and ballast water quality. This allows vessels to trade port to port without the crew having to manually adjust the system

\* All major control components are Type Approved and environmentally tested for use on BWM Systems.

# MSI

Marine environmental protection  
for a better world

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### Trust a world leader in BWM system control and operation

Manufactured by **ABB**, the **MSI** Smart Ballast Water Control System has a reputation for quality, reliability and accuracy. Plus they are backed by a global network of service engineers that are available when and where you need them.

The **MSI** Smart Ballast Water Control System includes a light sensor to monitor light transmission through the ballast water with a control means for regulating not only the biocidal dose but also the system flowrate based upon water quality.



MSI Smart Ballast Water Control System

### Key features of the MSI Smart Ballast Water Control System

The **MSI** Smart Ballast Water Control System monitors and adjusts BWM system's operation based on "real time" ballast water quality. This allows vessels to go port to port without having to manually adjust the system operating parameters. Automated controls provide user friendly features with less risk to the operator by removing potential significant human error.

The **MSI** Smart Ballast Water Control System senses build-up on the filter media and correlates that to a proprietary algorithm which controls flow based upon the filter performance and cleaning cycle. It also monitors water quality to modulate flow and ensure that minimum treatment dosage is maintained.

**MSI** Smart Ballast Water Control Systems have remote access capability for troubleshooting and performance data tracking.

The **MSI** Smart Ballast Water Control System's HMI/PLC records proper functioning and failures of the BWM system including all events in which an alarm is activated for the purposes of cleaning, calibration, or repair. It will store that data which can be exported for official inspections as required.

The **MSI** Smart Ballast Water Control System uses light sensor technology to monitor and control both the filter and biocidal system operations and effectiveness.

The **MSI** Smart Ballast Water Control System is designed to reduce alarmed shut downs saving thousands of dollars per event. Every event requires the crew to: 1. Stop Ballasting, 2. Identify the error source, 3. Fix and restart the system, 4. Resume USCG compliant ballasting. Not to mention the reporting requirements.

**MSI** offers complete control solutions including **ABB** instrumentation. These include: DP Sensors and Switches, Pressure Switches, Flow Meters, and Valve Operators. All components are Type approved, marine grade certified and the most reliable system components on the market today.

### Contact us

Please contact **MSI** to learn more about the **MSI** Smart Ballast Water Control System and how easily they can be integrated into your ballast water treatment system.

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