



**OCEAN AUTOMATION SOLUTIONS** are authorised agents for Rivertrace Engineering Ltd's market leading Oil in Water monitors and monitoring systems. We carry both Smartcell Bilge Monitors and OCD-CM Bilge monitors in stock and our team of qualified engineers are able to carry out a retrofit, new installation and/or calibration of your existing bilge monitor 24/7.

### SMART CELL BILGE ALARM

IMO Resolution MEPC 107 (49) came into effect on 1st January 2005 and applies to all new installations of oil content monitors within engine room spaces. This applies to existing ships and ships whose keel is laid on or after 1st January 2005. The Rivertrace Smart-Cell Bilge Alarm meets the requirements of MEPC 107 (49) for monitoring of 3 oil types: Fuel Oil, Diesel and Emulsions. By utilising the Smart-Cell Detector Array Technology, technology developed by Rivertrace, the Bilge Alarm analyses all three oil types simultaneously without the need for re-calibration. A manual cell clean device is included as standard to easily enable routine maintenance. Optical cell fouling is recognised as a leading cause of monitor malfunction or incorrect reading. By simple operation of the manual clean device, the Smart-Cell remains in optimum operating condition.



### OCD CM

The OCD CM is the result of market research and development of new technologies to produce a monitor that exceeds the existing standards and meets the requirements requested by customers and operators worldwide. The OCD CM has been specifically designed to eliminate the effects that cause false instrument alarms where the water contains high levels of solid particulates. In particular the unit has been designed to ignore the presence of iron oxide, of which most bilges have a plentiful supply, and output only the true oil concentration. All this in a package that is 25% the size of the OCD 2M. The OCD CM also has built in diagnostic features and the ability to show the inspectors if the software has been tampered with. Additionally the unit runs through a self check diagnostic routine on power-up that ensures all parameters are within limits and activates the alarm relays at their prescribed set points. All user adjustable parameters are accessed from an easy to use pushbutton menu from the front of the unit.



### Application of MEPC 107(49)

According to LRS, USCG, DNV, ABS and BV any 15 ppm alarm monitors replaced after 1st January 2005 MUST meet the requirements of MEPC 107(49). GL however will accept that MEPC 60(33) alarms can still be replaced with identical models on existing MEPC 60(33) separators.

## OCEAN AUTOMATION SOLUTIONS

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Our team of qualified service engineers are available 24/7 for any of your ship repair requirements, including automation, electrical and instrumentation servicing, troubleshooting and repair.

OUR QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO THE ISO 9001:2008 STANDARD BY LLOYD'S REGISTER QUALITY ASSURANCE