



# MK7 OMD

## OIL MIST DETECTION SYSTEM ↓

The Graviner Mk 7 OMD system is an auto addressed oil mist detection system. The system can comprise up to 100 detectors directly mounted on the crankcases of up to 10 engines, allowing both main propulsion and auxiliary generators to be monitored at the same time.

Each detector communicates electronically via the engine mounted Control Unit with the optional Remote Display Unit designed to be mounted within the engine control room. This eliminates the need to enter the machinery space during alarm conditions.

On power-up the detectors gather the oil mist density data and is transmitted to the control unit on the side of the engine. The Remote Display Unit houses a 7.5" LCD Touch Screen display that shows, on demand signals from each detector and indicates the oil mist levels for each engine. The display also shows the status of the system and signals the oil mist levels for the relevant engine in the event of an alarm.

### FEATURES

- AUTO ADDRESSED SYSTEM MONITORING UP TO 10 DETECTOR HEADS PER CONTROL UNIT
- UP TO 10 CONTROL UNITS PER SINGLE SYSTEM
- SUITABLE FOR BOTH 2 STROKE AND 4 STROKE ENGINES
- ELIMINATION OF SAMPLE PIPES - REDUCED INSTALLATION COSTS
- ENGINE MOUNTED CONTROL UNIT
- OPTIONAL REMOTE DISPLAY UNIT MOUNTED IN A SAFE AREA, TYPICALLY THE ENGINE CONTROL ROOM (ECR)



Immediately shows the oil mist levels for the relevant engine.

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It also enables the individual readings of each detector on the engine to be displayed on demand and automatically under alarm conditions. In the event of a detector fault, that detector can be isolated without affecting the function of the other detectors on the engine. The system will continue to operate while the faulty detector is replaced, repaired or maintenance is carried out.

TECHNICAL DATA	
Mounting	¾ inch BSP
Enclosure Rating	IP65 Cast Aluminium
Material	Sample Tube – Carbon Loaded PTFE Detector – Black Zytel 70G30 Nylon 66
Indicators	Green Detector ON Red Alarm Amber Detector Fault
Power Consumption	1.5 W
Temperature Rating	0 – 70°C
Size (H x W x L)	153 mm x 90 mm x 205 mm
Weight	0.5 kg
<b>Control Unit</b>	
Enclosure Rating	IP65
Material	Aluminium
Max detector inputs	10
Output Relays	Volt-free change over contacts rated at 30Vdc 1A
Back-up Alarm	1 set (de-energised during normal operation)
Pre Alarm	1 set (de-energised during normal operation)
Fault Alarm	1 set (energised during normal operation)
Engine Slowdown/ Shutdown	1 set (de-energised during normal operation)
Alarm Ranges	Pre Alarm 0.5mg/l to 1.2mg/l (adjustable) Default Value 0.9mg/l Alarm 1.3mg/l to 2.4mg/l (adjustable) Default Value 1.8mg/l Backup 3.0mg/l (fixed)

### APPROVALS

American Bureau of Shipping (ABS)  
Bureau Veritas (BV)  
China Classification Society (CCS)  
Det Norske Veritas (DNV)  
Germanischer Lloyd (GL)  
Korean Register of Shipping (KRS)  
Lloyd's Register (LR)  
Nippon Kaiji Kyokai (NKK)  
Polish Register of Shipping (PRS)  
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Russian Register of Shipping (RRS)



### GET IN TOUCH

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TECHNICAL DATA	
Power Consumption	
Temperature Rating	1 set per engine mounted junction box
Dimensions (L x W x H) (mm)	Height 186 mm Width 318 mm Depth 90 mm Weight 2.8 kg
Weight	2.8 kg
Remote Display Unit	
Enclosure Rating	
Material	
Max. No of Detectors	
Max. No of Engine Monitors	
Power Supply	
Power Consumption	
Temperature Rating	
Humidity Level	
Dimensions	
Bulkhead Mounted	225 mm x 240 mm x 58 mm
Panel Mounted	225 mm x 240 mm x 55 mm
Weight	1 kg

### Ordering Information

#### Product Name

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[www.survitecgroup.com](http://www.survitecgroup.com)

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