



**Oil Mist
Detector
Solutions
Pte Ltd**

Reliable Detection. Proven Protection.



www.oil-mist-detector.com

SPECS

Crankcase Oil Mist Detection (COMD) System

The **Crankcase Oil Mist Detection (COMD) System** prevents explosions and fires by monitoring oil mist concentrations in diesel engine crankcases. It uses light-scattering technology to detect oil mist levels with high accuracy.

The system provides early warnings, supports up to 112 detectors, and features oil discharge, lens coating compensation, robust design, and advanced monitoring capabilities, ensuring compliance with **IMO** regulations.



KEY FEATURES



Early Warning

Detects oil mist at an early stage to prevent engine damage and reduce downtime.



High Accuracy

Light-scattering technology ensures precise and reliable detection.



Wide Compatibility

Supports up to 112 detectors for large and complex engine setups.



Advanced Compensation

Oil discharge and lens coating compensation for stable performance.



Robust Design

Built for harsh marine and industrial environments.



Compliance

Meets IMO regulations for enhanced safety and reliability.

SYSTEM HIGHLIGHTS

- Light-scattering measurement principle
- Real-time oil mist concentration monitoring
- Multi-point detection up to 112 detectors
- Built-in oil discharge compensation
- Automatic lens coating compensation
- Relay outputs for alarm and pre-alarm
- User-friendly interface for monitoring and configuration
- Designed for continuous operation in marine and industrial applications

APPLICATIONS



Marine Diesel
Engines



Power Generation
Engines



Industrial
Engines

OFFICE ADDRESS



Oil Mist Detector Solutions Pte Ltd
7 Soon Lee Street #03-40 ISpace
Singapore — 627608

BUSINESS HOURS



Mon-Sat 9:00AM - 6:00PM
24X7 Support

CONTACT INFO



+65 9890 3047



+65 8575 7421



+65 6913 0263



omd@oil-mist-detector.com



**Oil Mist
Detector
Solutions
Pte Ltd**

Reliable Detection. Proven Protection.



www.oil-mist-detector.com

SPECS

CRANKCASE OIL MIST DETECTION (COMD) SYSTEM

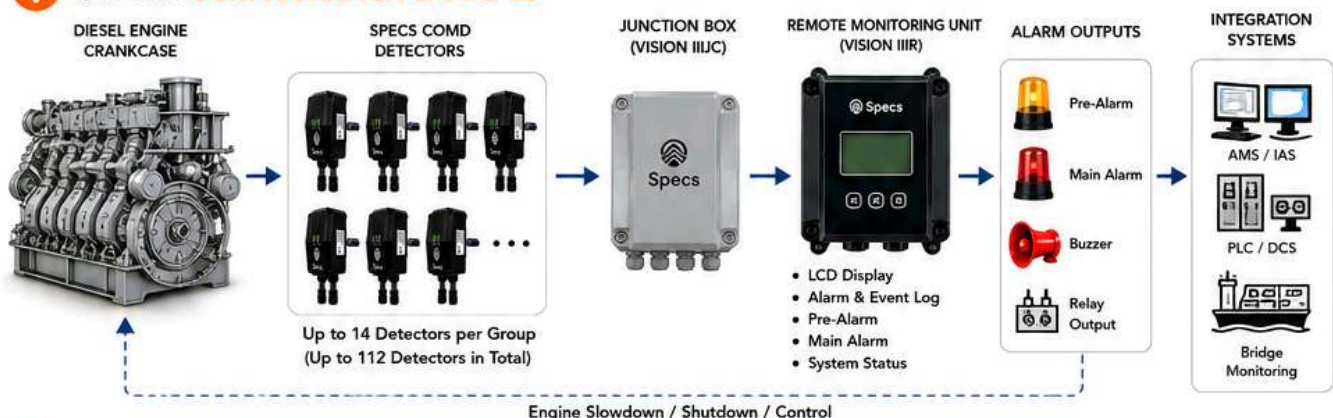


TECHNICAL SPECIFICATIONS

Parameter	Specification
System Type	Crankcase Oil Mist Detection System
Detection Principle	Optical Light Scattering
Measured Medium	Oil Mist in Engine Crankcase
Measuring Range	0–10 mg/L
Resolution	0.01 mg/L
Response Time	≤2 seconds per sampling point
Sampling Method	Automatic Sequential Sampling
Number of Sampling Points	Up to 112 Detectors (Max. 14 Detectors per Group)
Alarm Levels	Pre-Alarm & Main Alarm (Configurable)
Alarm Outputs	Pre-Alarm, Main Alarm, Fault & Engine Shutdown
Display	LED Status Indicators on Detector Status on Remote Monitoring Unit
Communication Interface	Modbus RTU (RS-485)
Power Supply	24 VDC
Power Consumption	< 50 W (Per Detector), < 100 W (Per Remote Monitoring Unit)
Operating Temperature	0°C to +70°C
Storage Temperature	–20°C to +80°C
Protection Class	IP65
Housing Material	Marine Grade Metal Enclosure
Installation	Wall / Bulkhead Mounted
Compliance	IMO Res. MEPC.107(49), IECEx / ATEX (Detector)
Applications	Marine Diesel Engines, Gas Engines, Turbines & Industrial Machinery



SYSTEM CONFIGURATION EXAMPLE



Specifications are subject to change without prior notice.
Please contact Oil Mist Detector Solutions Pte Ltd for the latest information.



**Oil Mist Detector
Solutions Pte Ltd**



www.oil-mist-detector.com