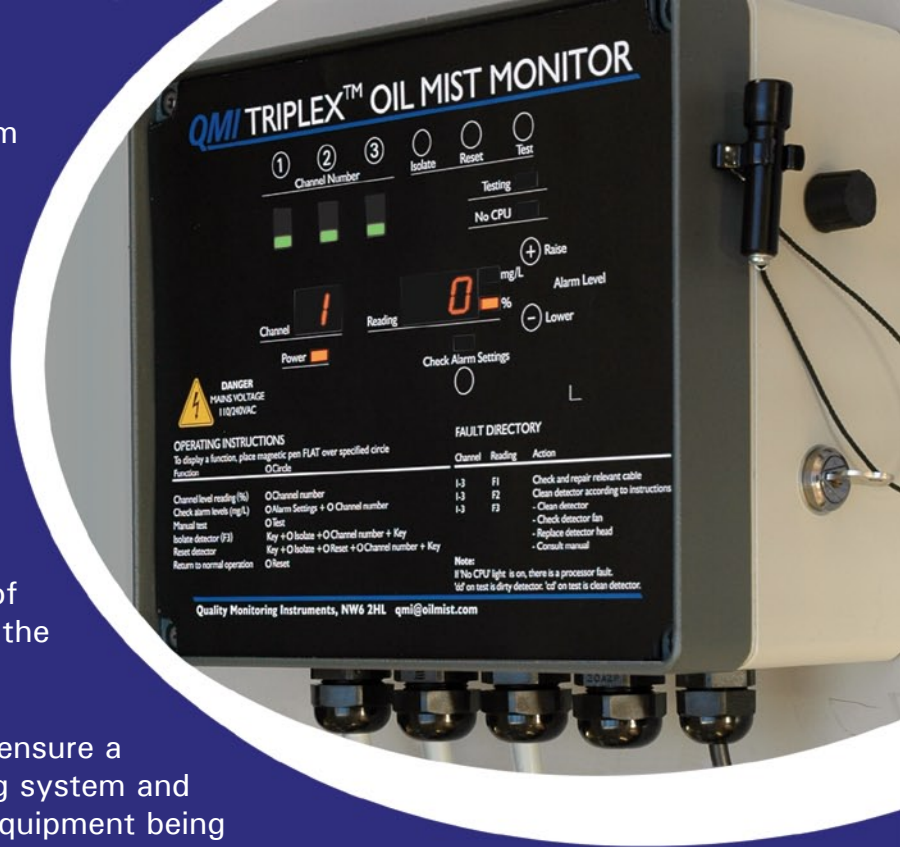


The new **QMI TRIPLEX** monitoring system is the practical answer to meet the need for oil mist monitoring in areas where only one, two or three detectors are required.

QMI atmospheric oil mist systems identify a hazardous build-up of oil mist in confined zones.

The oil mist concentration in the atmosphere is instantly reported back to the monitor to give advance warning of dangerous conditions in order to prevent the outbreak of fires.

The detectors incorporate a small fan to ensure a positive stream of air through the sensing system and are sited in the airflow usually over the equipment being monitored.



# QMI TRIPLEX™

OIL MIST  
MONITORING  
SYSTEM

Suggested applications are:

Hydraulic pack locations as recommended by **OCIMF SIRE Programme Ships Inspection Report 11.25**

Purifier rooms  
Shaft bearing tunnels

Bow thrusters  
Generator rooms  
Test cells & chambers.

Steering gear.  
Main engine rooms as recommended by IMO 1086  
Hydraulic chambers



The **QMI TRIPLEX** system is simple to install on new or existing vessels with the following advantages:

**Fast response**  
**No false alarms**  
**Easy to read**  
**No scanning**

*All detectors are calibrated and interchangeable*  
*User friendly working instructions on the face plate*  
*Detectors can be located more than 100 metres from the monitor*  
*Minimal maintenance*  
*Avoids major clean up operations*



# Atmospheric Oil Mist Detection

QMI are in the forefront of atmospheric oil mist detection. The need for such a monitoring system was first recognised when the maritime industry acknowledged that up to 65% of fires at sea are the result of oil mist leaks from areas where lubricating, fuel or hydraulic oils are under pressure causing a fine mist to collect in the atmosphere and leading to a fire. The answer is to install an oil mist detection system that will detect oil mist as it is being spread into the atmosphere and alarm long before it reaches a dangerous level. Sources of ignition can be many including exhaust pipes, turbochargers, and non-flameproof motors and static electricity.

The QMI MULTIPLEX system was originally developed in the early eighties to warn of avoidable engine damage and fires. Our customers asked if the detector was suitable to measure oil mist in the atmosphere as the engine crankcase system was by then recognised for its immediate response without any false alarms. This was a sound basis from which to start and the reliability of the proven system gives the operator confidence to act when an alarm is raised.

The marine industry trialed a new detector designed to measure oil mist in the atmosphere and Seatrade gave the design the prestigious award of a highly commended contribution to Safety at Sea in 1997. The design has since been modified to facilitate maintenance and to operate in the extreme working environments found at sea.

# QMI

The **QMI TRIPLEX**  
combined with the Q10 Atmospheric Detectors  
can sense the oil mist that causes fires *immediately*.

## SPECIFICATION

**Monitor Dimensions:** 280 x 230 x 138mm

**Weight:** 5.20 kg

**Sampling Point:** Maximum 3 Alarms

**Switches:** 2 Functional Switch: 1

**Monitor case:** IP65

Manual test programme except for functional facility

**Response time of detection:** 0.05 seconds

**Voltage:** 110/240VAC.

**Maximum power consumption:** 100W

Self-diagnostic alarm for the monitoring system

**Detector Dimension:** 359 x 113 x 73 mm  
(including fixing)

**Weight:** 2.30 kg

**Detector case:** IP65 except fan.

12V fan, power taken from the monitor

**Fixing:** Flanged articulated joint.

*Optional Extra:*

TRIPLEX unboxed 3-way PCB

13.5 x 10 cms to simplify installation

For more information  
please see our website:  
[oilmist.com](http://oilmist.com)

email: [qmi@oilmist.com](mailto:qmi@oilmist.com)

E & OE.

As we constantly endeavour to improve our designs  
the specification may vary.

Quality Monitoring Instruments Ltd.  
5 Hampstead West,  
224 Iverson Road,  
London. NW6 2HL

tel +44 (0)20 7328 3121

fax +44 (0)20 7328 5888