



## Atmospheric Oil Mist Detection

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**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.



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 138 mm

**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

E & OE.

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

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