1-53836-K270

OMD Mk7 control unit with membrane

Product overview

The Graviner Mk7 OMD is an auto addressed oil mist detection system capable of monitoring up to 10 control units per system with each control unit having up to 10 detectors connected to it. This is achieved without external sample pipes and with minimum cabling.

Each control unit provides 3 separate alarm levels for each detector. The pre-alarm and engine slowdown / shutdown alarms are user configurable, back-up alarm is activated at a fix level of 3 mg/l in the event of a software failure. An output relay associated with the three alarms provide signaling to the ship's control system.

For multi-engine systems up to 10 control units may be connected to a remote display unit allowing remote monitoring and configuration of the system.

In addition to monitoring the detectors oil mist levels the control unit also continuously monitors for faults which may occur. A separate relay output is provided to indicate a fault condition.

All alarms, faults and events are recorded in an event log which are date and time stamped indicating the type of event which can be analyzed at a later date.

The control membrane has LED indication for detectors connected, push buttons for isolation and de-isolation of detectors, as well as pushbuttons for accepting and resetting alarms.



Details

- Auto addressed system monitoring of up to 10 detector heads per control unit
- Up to 10 control units connect to a remote display unit for multi-engine systems
- Engine mounted control unit with local control and indication, reduced cabling requirements
- The control membrane has coloured LED indication to show the status of the each detector
- Membrane plus buttons provide the capability to locally accept, reset alarms, isolate and de- isolate detectors if required
- Each Mk7 control unit has 3 separate alarms, two of which are user configurable, to indicate the presence of key oil mist levels
- Alarm operate independently driving a set of volt free relay contacts
- Alarm relays can be connected to warning beacons or the automatic slowdown and / or shutdown circuitry for the associated engine
- Pre-alarm and slowdown / shutdown alarm levels are independently user configurable for each detector
- Each control unit maintains an event log, recording up to 1024 events

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Technical specifications

General

Status indicaton	LED status indication
Communication ports	Modbus to Remote Display Unit, UBS to PC, CAN to detectors

Electrical

Power supply type	24 VDC
Power consumption	3.9 W
Operating voltage	24 VDC (-25% / +30%)

Input

Input quantity	10
Input type and rating	OMD Mk7 detector

Output

Output quantity	4
Output type and rating	Volt-free change over relays rated at 30 VDC, 1 A
Fault signalling	Volt-free change over relay rated at 30 VDC, 1 A

Physical

Physical dimensions	186 x 318 x 90 mm (H x W x D)
Net weight	2.8 kg
Colour	Aluminium
Material	Aluminium

Environmental

Operating temperature	0 to +70°C
Storage temperature	-20 to +60°C
Relative humidity	95%
Environment	Indoor
IP rating	IP65

Regulatory

Standards	IACS M10 / M67

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