

# Multifunction Monitoring System

## Monitoring & safety system

**Optimize Safely the Performances of your Engine.**

**Description**

Control systems play a crucial role in extracting the best-possible performance, they must combine sophisticated hardware and first-class software design.

MMS, just does that, and is able to withstand even in the harshest operating conditions.

MMS covers monitoring and the safety features of the engine and the whole installation: from the exhaust gas, bearing, oil crank pin and alternator temperatures monitoring to the casing pressure monitoring, all main engine parameters are monitored.

Ergonomic and intuitive, MMS replaces most of the existing monitoring systems in only one control cabinet.



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### Engines

The MMS is designed for all 4-stroke engines.

### Benefits

- Operation & maintenance facilitation
- Crankshaft Protection
- Highly compatible with all automation systems
- Compatible with on line access.

### Certified quality

- MAN Energy Solutions OEM product
- MMS is based on the SaCoSone technology which is the best-of-the-art MAN Energy Solutions engineering.
- Multifunction Monitoring System as a whole and every component are CE compliant & approved by societies of classification.
- Unit and operational engine tests performed.



### MMS features

Fully modular, you select the MMS features according to your operating needs.

- Splash Oil Monitoring (PCOT)
- Main Bearing Monitoring (PalierElec)
- Crankcase Pressure Monitoring (CarterElec)
- Oil Mist Detector Interfacing
- Generator Temperatures Monitoring
- Exhaust gas Temperature Monitoring (PEGAST)
- Speed Display (alarm & over speed action)
- Graphical Display
- Alarms Memory

A lot of languages of display are available:

- English, French, German, Spanish, Portuguese, Chinese

### Attributes

- Features activation in regard of customers needs
- The operator terminal is a modern

and ergonomic interface with a user-friendly touchscreen

- Maintainability and spare parts supplying are secured
- Short installation time & few installation space

### Technical specifications

- 3 analogue outputs
- 24 power outputs
- 72 temperature inputs
- 5 frequency inputs
- 40 logic inputs

For master / slave communication a CAN interface is implemented.

### How to match MMS with your Automation Control System?

The elementary design of the MMS allows a short installation time on one or every engines, replacing one, some or all current monitoring systems.

This system can be easily connected to the safety and alarm system.

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