



ENGINE PROTECTION AND MONITORING SYSTEM (EPMS)



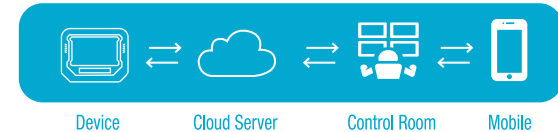
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Engine failures are costly and disrupt production for prolonged periods and engine failures can occur due to many reasons. Most of the manufacturers still rely on a single monitoring gauge. Often the gauge failures are only realized when there is a problem at the engine such as overheating, oil loss etc.

Many products around the world only monitor some of the events. Our Engine Monitoring Protection System offers a full protection with live monitoring through the new technological implementations.

All parameters can be configured to suit all types of machines and brands regardless of the volume or size of the machines. EMPS provides independent engine monitoring & protection system. EMPS monitors the following events.

- ▶ **Fuel Level Sensor (For Diesel Anti-Theft)**
- ▶ **T.P.M.S. (Tyre Pressure Management)**
- ▶ **Transmission Oil Pressure**
- ▶ **Coolant Level**
- ▶ **Coolant Temperature**
- ▶ **Engine Oil Level**
- ▶ **Engine Oil Pressure**
- ▶ **Real-Time Monitoring Device with GSM Module**



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The Engine Monitoring Protection System also stores an array of fault logs that can be accessed at a later stage to investigate engine failures. This digital output system can be connected to our fleet management system. EMPS is designed to monitor and give early warnings before the machine failure occurs and after a certain point of time, the system will automatically stop the machine in order to prevent catastrophic engine failures. There are different types of warning technologies implemented to have flexibility for any situation. Please see the following types of warnings:

- ▶ **Control Room Warning & Monitoring**
- ▶ **Audio-Visual warning for the machine operator on vehicle computer**
- ▶ **E-Mail Notification**
- ▶ **Mobile Application Notification**

Auto-Engine Stop System is automatically activated just before critical engine failures happen.

The Engine Monitoring Protections System provides the following benefits; preventing large repair cost, engine failures and loss of production, improved machine productivity, and reduces extra expenses with increased profits.

EASY TO USE

