

# **SAFESTOP**

Automotive Management Systems

## **Engine Management System with Idle, Rev & Speed (ERS-001)**



### **FEATURES**

- \* **ENCAPSULATED SOLID STATE ELECTRONICS**
- \* **TAMPERPROOF**
- \* **VIBRATION RESISTANT**
- \* **WATERPROOF ELECTRONICS**
- \* **FAIL-SAFE - IF WIRING IS TAMPERED WITH OR IS DISCONNECTED**
- \* **SELF DIAGNOSTIC**
- \* **DEDICATED WIRING HARNESS**
- \* **FAULT INDICATION DISPLAY UNIT**
- \* **CODED CALIBRATION**
- \* **ALARM PRE-WARNING BEFORE POWER LOSS**
- \* **FULL ENGINE SHUT DOWN FOR ENGINE FAULTS**
- \* **SPEED & REV CONTROL**
- \* **IDLE CIRCUIT OVERRIDE WHEN PTO ACTIVE**
- \* **NATIONAL DISTRIBUTION**
- \* **NATIONWIDE 24 HOUR SUPPORT/SERVICE VIA TOLL FREE EMERGENCY NUMBER IN RSA**

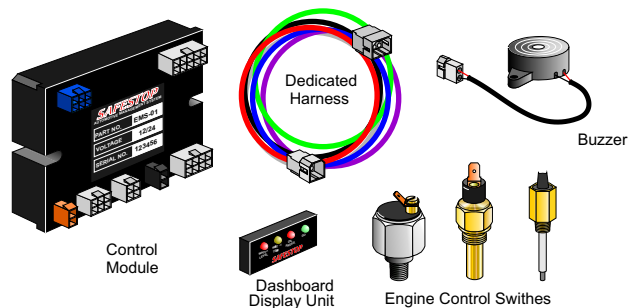
### **INTRODUCTION**

Engine failure is the transport industry's nightmare. It involves untimely expensive repairs, which upset the repairs and maintenance budget, causes late deliveries, involves downtime and loss of revenue of having to hire a replacement vehicle.

All these problems can be minimised by installing a **SAFESTOP** EMRS-2 Engine Management System with Idle, Rev & Speed Control.

### **DESCRIPTION**

Standard equipment consists of an epoxy encapsulated control module, dedicated wiring harness, dashboard display unit, a high frequency Piezo buzzer as well as relays to control the Starter Motor, Engine Stop Control Circuit, Exhaust Brake & Hazard light circuits. Standard engine equipment includes switches for low oil pressure, high water temperature and low coolant level (Coolant Loss)



The **SAFESTOP** system's uniqueness is its built in diagnostic and pre-warning functions.

If any circuit is tripped due to a pre-set parameter being exceeded, switch failure, or loss of continuity of a signal wire, the driver is alerted to the impending shut down of the engine by the appropriate circuit light and buzzer. This 10 second pre-warning allows the driver to take necessary action to move the vehicle to the side of the road.

The engine automatically shuts down thereafter.

The Starter Motor is isolated in sympathy with engine power loss.

Three circuits monitor driver attitude and enforce Management limits.

Speed and Revs are controlled to pre-set calibrated limits after providing a pre-warning to the driver via the buzzer. Full power is reinstated once the speed or revs have reduced to below the buzzer warning point.

Excessive Engine Idle is also monitored & will stop the engine after 5 minutes of continuous idling.

***The SAFESTOP ERS-001 is fail-safe and any fault with the engine switches, wiring or main control module causes the engine to shut down. Simply put, if the vehicle leaves the depot the system is working.***

Agent:

**SAFESTOP CAPE**  
**3 Airport Business Park**  
**Airport Industria**  
**Cape Town**

**021-3851760**