



10000H

# REVOLUTIONIZE YOUR FLEET

## WHY SHOULD YOU HYBRIDIZE YOUR FLEET WITH A ZERO RPM SYSTEM?

### ENGINES CAN'T POLLUTE AT ZERO RPM<sup>®</sup>

THE AVERAGE SERVICE VEHICLE IDLES 4 HOURS PER EVERY 8 HOUR SHIFT

EVERY HOUR OF IDLING CAUSES 33 MILES OF WEAR AND TEAR ON THE VEHICLE

THAT'S 7,300 GALLONS OF FUEL WASTED OVER 5 YEARS

PROTECT THE ENVIRONMENT FROM 70 TONS OF CO<sub>2</sub>



### WHAT DO ZERO RPM<sup>®</sup> IDLE MITIGATION SYSTEMS<sup>®</sup> DO FOR ME AND MY FLEET?

ZeroRPM Idle Mitigation Systems (IMS<sup>®</sup>) eliminate unnecessary idling using hands-free control: once the vehicle is in park, the IMS automatically shuts down the engine and provides all required power. Patented ZeroRPM technology enables full use of the factory HVAC controls, providing comfortable use of the vehicle without the waste caused by engine idling. For extended times of stationary use of the vehicle, the IMS automatically manages the engine start and stop to recharge the batteries as needed. When it is time to drive, a simple press of the brake pedal starts the engine, readying the vehicle to drive. Once in park again, the IMS takes care of the rest, allowing the operator to focus on their duties without the distractions associated with manual idle reduction systems.



**Improve Operator Safety and Comfort:** The IMS provides full use of all HVAC and electrical components without the fumes and noise from an idling engine. The system's automatic delivery of heat, air conditioning, and power for equipment in park (as if the engine were running while the engine is off) means fewer distractions. A focused operator is a safe and happy operator.



**Protect the Environment:** A gallon of gasoline and a gallon of diesel fuel produce 18.95 lbs and 22.06 lbs of CO<sub>2</sub>, respectively. This translates to more than 31 tons of harmful emissions per double-shift vehicle each year. A fleet of 20 vehicles working 262 days a year could produce more than 4.5 million lbs of CO<sub>2</sub> and other harmful emissions over their service lives.



**Reduce Fuel Consumption:** Diesel engines consume 0.9-1.2 gallons of diesel fuel during every hour of idling. When an engine's RPM gauge is at zero RPM, it consumes 0.0 gallons of fuel per hour, resulting in a typical payback from fuel savings ranging from two to four years.



**Reduce Operating Costs:** Every hour an engine idles, it is estimated to create the same wear and tear as 33 miles of driving. Many fleets reduce the payback period by 1/3 or more when maintenance cost reduction and asset life extension are factored into the payback calculation. DPF regenerations are often cut in half and manual regenerations are usually eliminated.

Turn the page to see **HOW** ZeroRPM systems operate "like the engine is on — but with the engine off."

## WHEN SHOULD YOU PURCHASE YOUR ZERO RPM IDLE MITIGATION SYSTEM?

///PROCRASTINATION IS "IDLING" FOR HUMANS.



ASK FOR ZERO RPM IDLE MITIGATION SYSTEMS **WHERE** YOU PURCHASE YOUR FLEET VEHICLES.

See **HOW** the Idle Mitigation System allows your vehicle to operate “like the engine is on — with the engine off.”

- > **Power to On-board Electronics:** Provides power to all electronics (e.g. radio, lights, and computers) without running the chassis engine.
- > **Engine-off HVAC:** Provides heating and cooling through the factory vents without running the chassis engine.
- > **ZeroKEY™:** Allows secure use of HVAC and on-board electronics without using the chassis ignition key.
- > **Automatic Recharging:** Batteries charge natively from a 12V alternator. Solar panel and shore power integrations are optional.
- > **ZeroIDLE™:** Prevents the IMS from automatically starting the engine in “no-idle” zones. The operator can be notified by an optional buzzer, backup alarm, or voice annunciator.
- > **Widespread Chassis Compatibility:** Compatible with light-, medium-, and heavy-duty chassis from all major manufacturers.
- > **Compact Form Factor:** Compact and lightweight, an IMS with battery-powered A/C typically adds less than 200 lbs when installed for most applications. Heat-only IMS adds less than 30 lbs once installed.
- > **Lithium-Iron Batteries:** Powered by safe Lithium-Iron\* batteries with a 5-year warranty.
- > **Stackable Solutions:** 12VDC, 24VDC, 36VDC, and 48VDC are all available on common IMS platforms with 12VDC shore power charging.
- > **Universal Software:** All platforms are driven by the same core software with a standardized user interface.

\*“Lithium-Iron” is a marketing term for ZeroRPM’s LiFeMnPO<sub>4</sub> packaged energy storage systems.

*I’m an engineer. Take me to your specs. — [ZeroRPM.com/Products](http://ZeroRPM.com/Products)*

## ANALYZE YOUR FLEET

SEE WHAT HAPPENS AFTER PARK WITH INTELLIMETRICS®



Track vehicle usage and Idle Mitigation data on a single vehicle or an entire fleet and uncover opportunities to save fuel and extend engine life with ZeroRPM **Intellimetrics**®. Intellimetrics software gives users detailed insight into the data collected by their vehicles. A secure portal provides customized reports and graphs of fuel savings, emissions reduction, and vehicle usage.



Data can be exported, transmitted, or emailed in tabular format so it can be analyzed offline in any CSV-compatible tool such as Excel, Access, or in-house fleet management tools.



Information can be analyzed graphically or tabulated (in detail or in summary) for a single vehicle or for groups of vehicles, including aggregate information for the entire fleet.

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WHO ARE WE?

PROVEN HORSEPOWER AT ZERORPM®



**Award-winning Company**



**Award-winning Product**



**Market-proven**



**1.855.ZERORPM**



**Systems in Constant Service Since 2012**



**Systems Operating Daily in 42 States**



**Lab-tested Product Reliability**



**ZERORPM.COM**