

# EGS Trim System

## for Lean Burn Industrial Spark-Ignited Engines

### Applications

Woodward's EGS control system controls industrial gas engines used in power generation, pumping, and other stationary applications ranging from 300 kW to 2000 kW (400–2700 hp).

The highly accurate, closed-loop control system helps customers meet regulated emission levels, while maintaining engine performance over a very large range of fuel qualities.

The EGS system is the latest in the Woodward line of engine control systems designed to meet the increasing needs of our customers.



### System Overview

The EGS system is a fully integrated engine control solution.

The Woodward EGS system has full authority over spark, fuel, and air. Additionally, diagnostics such as detonation and misfire as well as other health monitoring are integrated into the system.

This fully integrated approach permits precise governing and air/fuel ratio controls while remaining flexible enough large variations in fuel quality.

#### EGS TrimLITE:

- Air Fuel Ratio Control
- Speed/Load Control

#### EGS TrimAdvanced—A fully integrated system:

- Air Fuel Ratio Control
- Speed/Load Control
- Ignition
- Engine Protection
  - ✓ Knock Detection
  - ✓ Full Misfire Detection
- Scalable for Large to Small Gas Engines

The EGS system includes Woodward's full range of gas engine components:

- Integrated fuel valves and engine throttle bodies ranging from 16 mm to 180 mm
- FireFly™ Knock Detection
- Fixed Venturi Mixers
- Ignition Systems
  - ✓ SmartCoils
  - ✓ IC-920 or IC-922

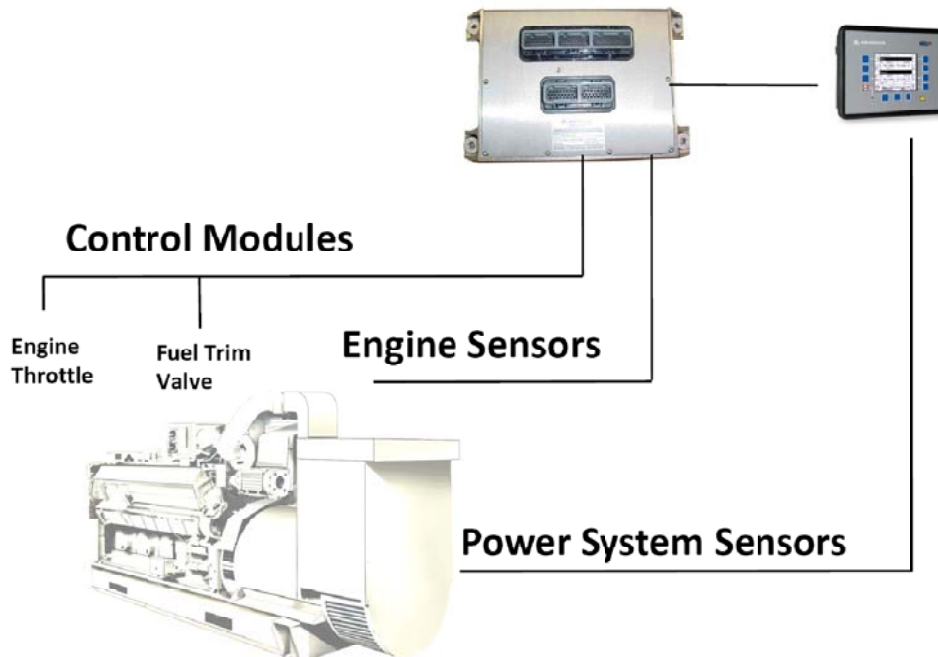
Engine health and diagnostics are integrated to ensure the engine remains in a safe operating mode.

The System can also expand with the easYgen™ power management product line. These products can form the gateway to external systems and also display information that is available from the EGS system.

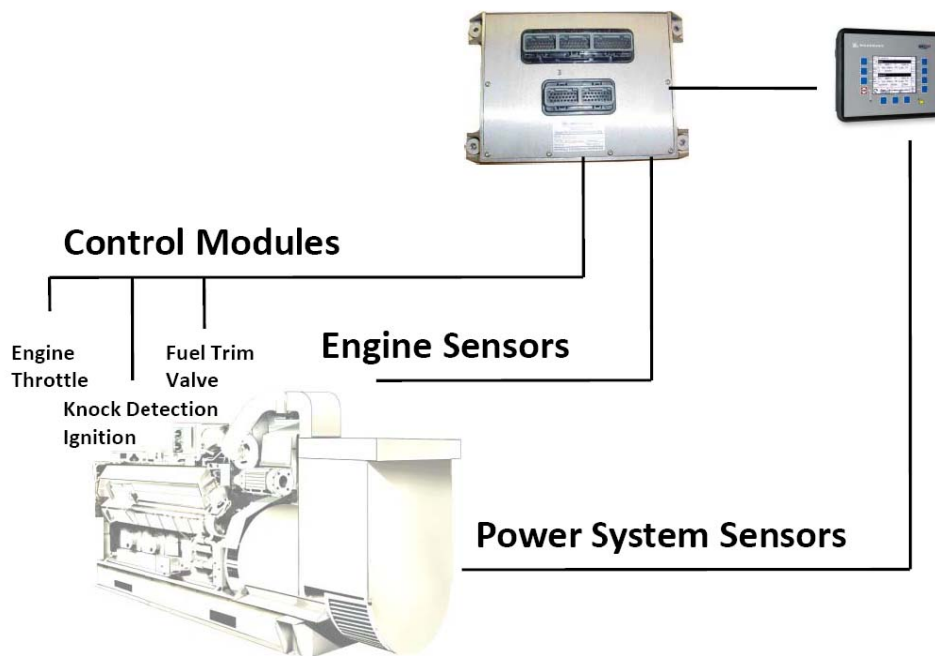
- Integrated approach reduces system complexity and reduces overall cost
- Scalable to meet entire range of customer needs
- Integrated engine protection and diagnostics to ensure safe engine operation
- Power generation or mechanical drive applications

The following functional diagram shows how all the components are integrated into a Power Generating system:

## EGS TrimLITE



## EGS TrimAdvanced



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### Distributors & Service

Woodward has an international network of distributors and service facilities. For your nearest representative, call the Fort Collins plant or see the Worldwide Directory on our website.

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