



# Electronic Digital Governor

## EDG5500, WITH QUICKSET DISPLAY

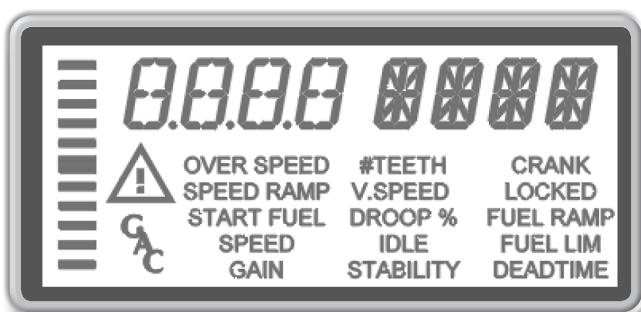
GAC's EDG5500 digital governor is designed to regulate engine speed on diesel and gasoline reciprocating engines. The EDG is a suitable replacement for any mechanical governor system that needs flexibility, precision, or accurate control of governed speed. The EDG is designed for industrial engine applications from generator sets, and mechanical drives, to pumps or compressors.



## FEATURES

- Identical Mounting Hole Pattern to ESD5500E
- Simple LCD User Interface
- Fast Setup with 5 push buttons, no Potentiometers
- Lockable Display to Prevent Unauthorized Access
- 2 Fixed Speeds (Rated/Idle) and Variable Speed
- Selectable Isochronous or Droop Governing
- Adjustable Starting Fuel Strategy (Black Smoke Reduction)
- Speed Ramping (Idle to Rated or any Speed Setting & Transient Change)
- Overspeed Sensing
- Magnetic Speed Pickup Input
- Includes Standard GAC AUX Input for Synchronizing and Load Sharing

## QUICKSET DISPLAY



The EDG5500's Quikset Display allows its operator to monitor and configure parameters without any external monitoring devices. This means no configuration software or PC required.

- Alpha Numeric Display
- Numerical Display
- Display Speed, Throttle Position, Delta Speed Graph, or Current being supplied to Actuator
- Configurable Parameters
- Warning Indicator

# SPECIFICATIONS

## Performance

Isochronous Operation	± 0.25%
Speed Range / Governor	400 - 10 KHz (Mag Pickup)
Idle Adjust	Full Range
Droop Range	1 - 5% regulation
Speed Trim	Programmable 0 - 100%, (default = 5%)

## Compliance / Standards

Agency	CE and RoHS Requirements
Communications	SAE J1939 (Option)

## Reliability

Vibration	10G, 20 - 100 Hz
Shock	20 G
Testing	100% Functional Testing

## Input / Output

Supply	12 - 24 VDC Battery Systems (6.5 to 33 VDC)
Polarity	Negative Ground (Case Isolated)
Power Consumption	70mA max. continuous plus actuator current
Speed Sensor Signal	0.5 - 120 VRMS
Actuator Current @ 77°F (25°C) MAX	10 Amps Continuous
Load Share / Synchronizer Input	0 - 10 VDC (5V nominal, reversed, 100Hz/V
Reverse Power Protection	Yes
Transient Voltage Protection	60V

## Environmental

Ambient Temperature	-40° to 85°C (-40° to +180°F)
Relative Humidity	up to 99%
All Surface Finishes	Fungus Proof and Corrosion Resistant
CE Rated	EN55011, EN50081-2, EN50082-2

## Physical

Dimension	5.9in x 5.6in x 0.8in (151mm x 144mm x 20mm)
Weight	1.8 lbs. (820 grams)
Mounting	Any Position, Vertical Preferred

# OPTIONS

## Load Sharing Modules



LSM100 Series



LSM200 Series



LSM672

The LSM series of Load Sharing Modules are intended to be paired with GAC's speed control units. All models are built for generator set applications requiring isochronous paralleling, load sharing, and mains power control. GAC's LSM's offer precise functionality with a choice of different features and at a high quality. To figure out which LSM model is right for you, contact Governor's America Corp. or visit the website.

- Isochronous Load Sharing
- Power Monitors with LED Bar Graphs
- Forward-Reverse Power Monitors
- Power Ramping
- Load Anticipation
- Adjustable Delay

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