



Electronic Digital Governor

EDG5500, WITH QUICKSET DISPLAY

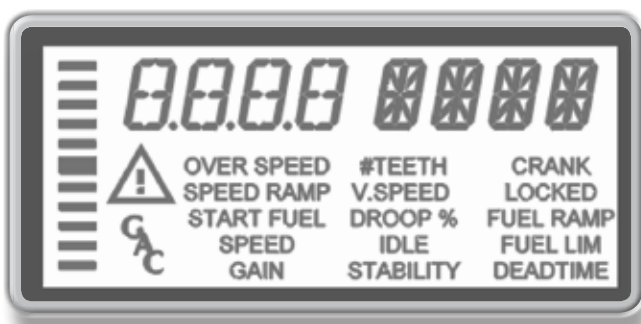
GAC's EDG5500 digital governor is designed to regulate engine speed on diesel and gasoline reciprocating engines. The EDG is a suitable replacement for any mechanical governor system that needs flexibility, precision, or accurate control of governed speed. The EDG is designed for industrial engine applications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



FEATURES

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

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

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 | 10 g, 20 - 100 Hz |
| Shock | 20 G |
| Testing | 100 % Functional Testing |

Input / Output

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

Environmental

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

Physical

| | |
|-----------|--|
| Dimension | 5.9 x 5.6 x 0.8 in [151 x 144 x 20 mm] |
| Weight | 1.8 lb (820 g) |
| 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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