

# GSC300 Digital Genset Controller

## Includes 6 Engine Instruments

The GSC300 is designed to provide autostart control, protection, and engine instrumentation for all types of diesel and gas generator sets. The module is easily configured using either the front panel buttons or our PC configurator software. The GSC300 provides direct mounting compatibility with other DynaGen controllers such as the GSC400 to allow for a full range of options to fit the application.

### Displays:

- Oil Pressure
- Engine Temperature
- Fuel Level
- Hour Meter
- Frequency
- Battery Voltage

- Conformally coated for protection against moisture and contaminants.
- Customizable Screen Messages.
- Configurable via front panel or PC.
- Accepts industry standard senders (VDO, Stewart-Warner, Datcon, Murphy).
- Zero speed restart prevents starter pinion wear.
- Timers for: Pre-heat/Warm-up/ Energize-to-stop, Cool-down, Engine Start Delay, Mid-heat and Post-heat.
- Low Battery Indication.
- Restart on false attempts.
- Optional Fuel OFF during crank rest period.
- 5-Year Warranty.



Compact 4.3" x 5.5" x 2.16" Footprint



## Incorporates the Functions of 6 External Gauges

The GSC300 displays 6 critical engine readings through a backlit digital display augmented by 8 high-intensity lights for failure and status conditions. A built-in Auto/Manual/Off Switch is also included.

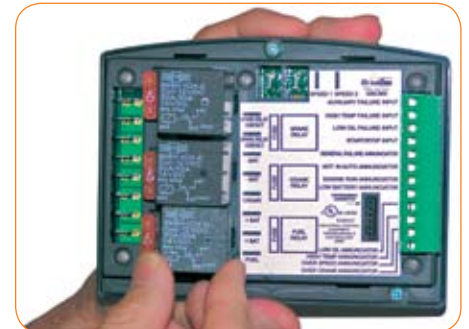
## 3 On-board Replaceable 40A Relays & Fuses

The GSC300 is socketed to accept 3 industry standard 40A resistive cube relays - each protected by a replaceable automotive fuse. The GSC300 eliminates the need to mount, wire, and fuse external slave relays for Fuel, Crank, and Pre-heat.

## Computer

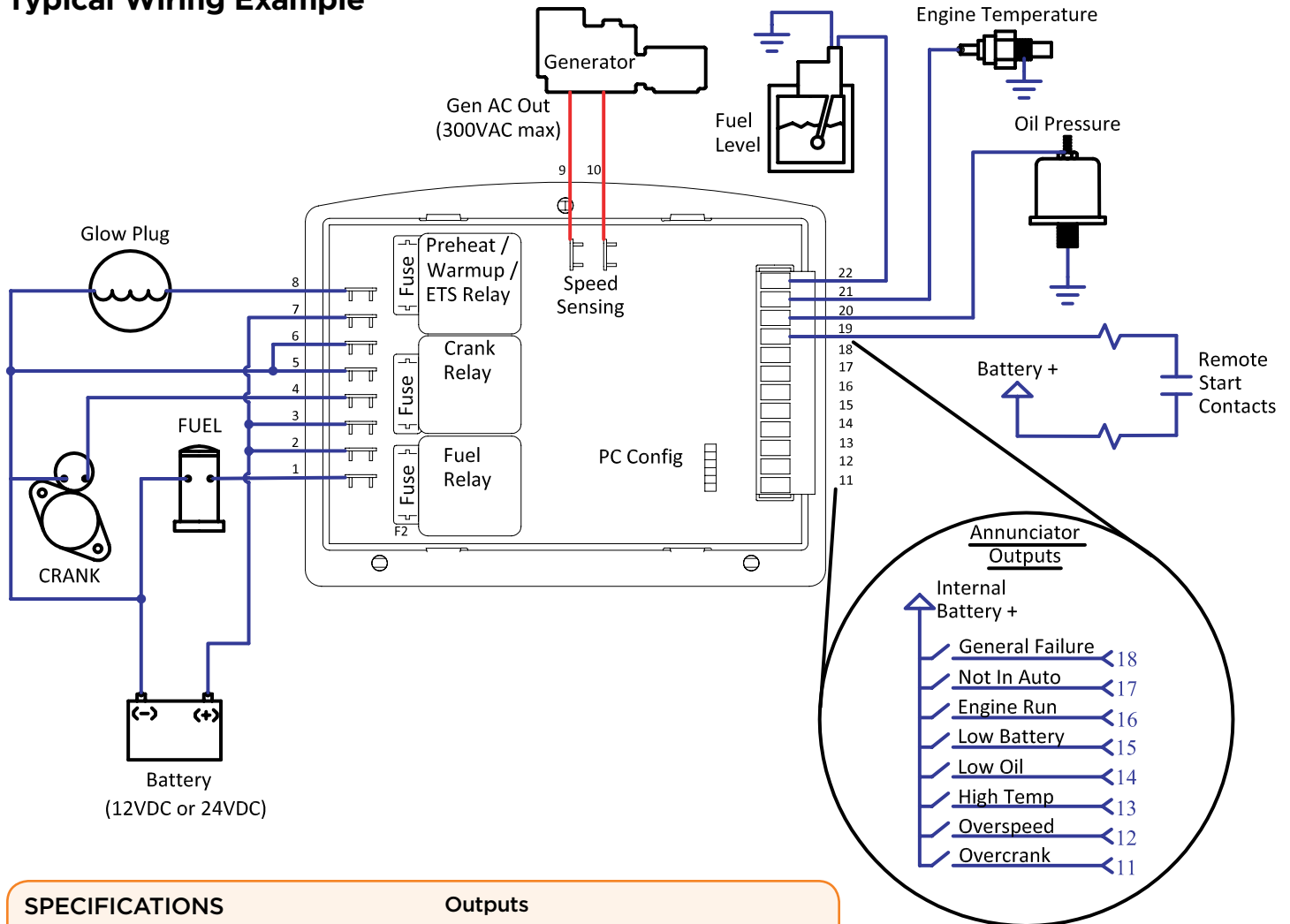
The GSC300 is programmed with our free, easy-to-use PC software interface that provides customization of screen messages, languages, sender selections, and control settings. Programming unit is required.

## Easy-to-Use PC Configuration Software



GSC300 showing 40A resistive removable relays, replaceable fuses and annunciator strip

## Typical Wiring Example



### SPECIFICATIONS

#### Operating Voltage

- 7 to 30VDC continuous, with zero volts cranking dropout protection
- Reverse battery protected
- Standby current draw: 40mA
- Load Dump: J1113/11 Pulse 5a

#### Operating Temperature

- Controller Function: -40 to +70C
- Display Screen Viewing: -15 to +70° C

#### Physical

- Dimensions: 4.3"H x 5.5"W x 2.16"D
- Weight: 0.75 lb

#### Speed Sensing

- Generator Output: Up to 300VAC (no external transformer required)

#### Inputs

- Oil Pressure Input - Sender (0-500Ω) or Switch\*
- Engine Temp Input - Sender (0-500Ω) or Switch\*
- Fuel Level/Aux Input - Sender (0-500Ω) or Switch\*

\*Failure inputs must close to ground.  
All failure inputs are ignored for an adjustable bypass period.

#### Outputs

- Fuel, Crank & Preheat/WarmUp/ETS: 40A resistive high capacity replaceable automotive relays:
  - Switched to battery positive
  - 12 or 24 VDC battery system (select appropriate relay for system voltage)
- Short circuit & overload protection on annunciation outputs (rated 300ma max.)



Also available with control panel box and vibration mounts - ENCO057

## Ordering Information

Part No. **GSC300-L-12-LS\***

(generator output)

**GSC300-H-12-LS (magnetic pickup)**

\*comes with 12VDC relays installed.

Available Accessories:

RLY0054 - 24V relays

ACC0108 - S&W Oil Press Sender (279B-F), 100PSI, 240Ω, 1/8"-27 NPTF or 3/8" - 18 NPTF (c/w adaptor)

ACC0027 - DATCON Temp Sender 100-280C, 1/8"-27 NPTF

GSC300-USB-PGMR -

USB Programming Kit with software

ENCO057 - NEMA 1 Enclosure with vibration mounts

To find out more visit  
[www.dynagen.ca](http://www.dynagen.ca)