

GSC300 Digital Display AutoStart™ Engine Controller

Technologies Inc.
DynaGen

Eliminates 6 External Gauges



Actual Size

Displays:

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

Complete Range Of Engine Control Functions

Conformally Coated

Customizable Screen Messages

Computer or Manually Programmable

5-Year Warranty

Small Footprint

(4.25"H x 5.5"W)



Incorporates the functions of 6 external gauges

The GSC300 represents a true engineering breakthrough in controller technology, delivering 6 critical engine readings through a sharply backlit digital display augmented by 8 high-intensity lights for failure and status conditions. Even the Auto/Manual/Off Switch is built in.

3 On-board replaceable 40A relays & fuses

The GSC300 is the *only* engine controller socketed to accept 3 industry standard 40 Amp cube relays - each protected by an easily replaceable automotive fuse. The GSC300 saves you time and money by completely eliminating the need to mount, wire, and fuse external slave relays for Fuel, Crank, and Preheat. Another industry first from DynaGen. The GSC300 delivers big savings that will keep you cost competitive on every job!

Computer or manually programmable

The GSC300 can be programmed manually via front panel buttons OR with our easy-to-use PC software interface that provides customization of screen messages, languages, sender selections, control settings, and much more. Or, you can simply have the GSC300 configured to your settings at our factory prior to shipping. The choice is yours.

Priced lower than most conventional controllers

The most astonishing thing about the GSC300 is that it delivers so many features and savings in such a compact and attractive high impact ABS plastic housing. And, its patent pending design provides you with a solution that costs less than most conventional autostart units! And, all this comes with DynaGen's standard **5 Year Warranty** - the best in the business.

Contact us today!

1-888-DYNAGEN
www.dynagen.ca

The Best Generator Controls at the Best Prices

GSC300 AutoStart™ Specifications

Operating Voltage

7 to 30VDC continuous, with zero volts cranking dropout protection

Operating Temperature

Controller: -40 to +85°C
LCD: -15 to +70°C

Physical

High Impact UV Resistant ABS Enclosure
Conformally coated circuit board

Dimensions: 4.3"High x 5.5"Wide x 2.16"Deep
Weight: 0.752 lbs

LCD Display

Ultra-bright backlit LCD with optimum viewing angle of 0 to -25° from perpendicular

Display size (mm):
8 (W) x 32 (H) x 12.8 (D) x 16 characters

Front Panel Indications

High intensity LED's with regulated brightness indicating:

- Preheat (Yellow)
- High Water Temp (Red)
- Not in Auto (Red)
- Low Engine Battery (Red)
- Overspeed (Red)
- Low Oil Pressure (Red)
- Engine Temp (Red / Amber)
- Overcrank (Red)
- Engine Running (Green)

Two Easy Methods of Parameter Adjustments

Front Panel Button Programming

Permits field programming of GSC300 without use of PC

PC Interface Programming

Provides easy & comprehensive programming of all timers, crank disconnect, failure, set-points & messages.

Speed Sensing Input

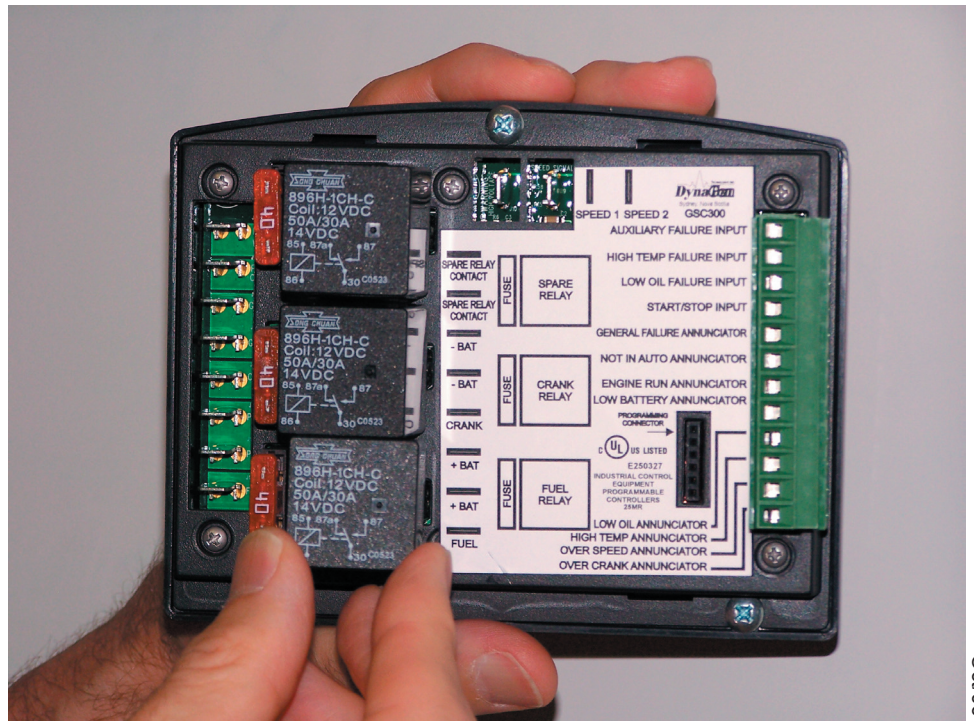
Via generator output, 300VAC maximum

Terminal Connections

Plugable 0.25" quick-disconnect male terminals

Adjustable Settings with Customizable Messages

- **Warm-Up:** 0 - 200 seconds (after oil bypass period)
- **Cool-down timer:** 0 - 812 sec.
- **Crank Disconnect:** user adjustable
- **Overspeed:** user adjustable
- **Crank Time:** 4 - 32 sec.
- **Rest Time:** 4 - 32 sec.
- **Delay to Start Time:** 0 to 59 sec.
- **Crank Tries:** 1 - 10 attempts
- **Oil Bypass Time:** 10 - 55 sec.
- **Low Battery Indication:** user adjustable
- **Restarts on false attempts:** Enable / Disable
- **Fuel ON during Rest Period:** Enable / Disable
- **Shutdown time Low Oil Failure:** 0.5 - 6 sec.
- **Shutdown time High Eng. Temp Failure:** 0.5 - 6 sec.
- **Oil Pressure Failure** - configurable for Sender/Switch
- **Engine Temp Failure** - configurable for Sender/Switch
- **Aux & Fuel inputs** - configurable for Sender/Switch
- **Fuel Level Display** via Sender selection or Fuel Input
- **Post Heat:** Enable (5sec after running) or Disable
- **Mid Heat:** Enable (turns on glowplug 2 secs into cranking and remains on for the duration of cranking)



GSC300 showing 40Amp removable relays, replaceable fuses and annunciator strip

Inputs

High Temp Input Failure (close to ground only):
programmable shutdown time from 1 - 6 secs
configurable for:

- NO at engine run Switch
- Sending unit

Low Oil Pressure Failure (close to ground only):
programmable shutdown time from 1 - 6 secs
configurable for:

- NO or NC engine run Switch
- Sending unit

Aux Failure (close to ground only):
fixed 1 second shutdown time
configurable for:

- NO at engine run Switch
- Sending unit

Remote Start/Stop

- close to +battery to Start
- open to stop

Failure inputs (oil, temperature, and fuel/aux) inputs
accept industry standard low impedance senders which range from 0 - 300 ohms resistance.

3 High Current 40A Outputs for:

- Fuel** - output is switched to +battery
- Starter (crank)** - output is switched to +battery
- Preheat/WarmUp/Energize to Stop** - dry contacts

Remote Annunciation Outputs

Switched to +battery when energized.
Capable of switching 300mA max. with short circuit and overload protection (turns unit off)

- Low Oil Pressure Failure
- High Engine Temp. Failure
- Overcrank (failure to start)
- Overspeed
- Engine Running
- General Failure
- Low Battery Warning
- Not-in-Auto Warning (system disabled)

Protection

- 3 On-board replaceable 40amp fuses protect fuel and crank outputs
- Reverse polarity on main battery supply input
- Short circuit & overload protection on annunciation outputs
- Transient protection on all annunciation inputs and outputs
- Power supply surge withstand: 1500V for 250us on all inputs, outputs, and power supply
- Low battery warning display feature. Front panel indication will illuminate when battery voltage goes below user configurable setting.
- Zero Speed Restart prevents starter pinion wear by ensuring that no engagement of the starter is possible unless the speed is zero.



Contact Us

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