

DynaGen™

TOUGH SERIES™ TG350



AUTOSTART CONTROLLER FOR ENGINES OR GENERATORS

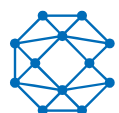
- HIGHLIGHTS**
- Designed for complete control, protection and engine instrumentation on mechanical or electronic engines
 - Three phase voltage metering for generator applications
 - Easily configured using the front panel buttons or RapidCore™ configurator software
 - Tier 4F and Euro Stage V compliant. Call factory for specific engine types
 - Ideal for applications where reliability is critical, such as mobile and stationary engine equipment or generators
 - OEM private label branding available

- FEATURES**
- Displays:
 - Oil pressure
 - Engine temperature
 - Fuel level
 - Oil level
 - Hour meter
 - RPM
 - Battery voltage
 - Real time clock with time/date
 - J1939 DTC codes with custom text
 - Supports mechanical or CANbus J1939 engines
 - Configurable Diagnostic Trouble Code (DTC) readout
 - Conformally coated for protection against moisture and contaminants
 - Front panel gasket for panel water ingress protection
 - RPM via J1939, magnetic pick-up or generator
 - Full electronic variable speed control over J1939
 - Autostart on low battery and other sensors
 - Trim features for sensors and AC voltage inputs
 - Exercise clock
 - 150 event logs (events, warnings, failures)
 - Fast and rugged installation clips
 - Automatic shutdown and warnings
 - Manual and remote start
 - Accepts common senders (VDO, Datcon, Murphy and more)
 - DPF and DEF status icons (fluid level and temp)
 - Two customer defined parameters (temperature, pressure, voltage, levels)
 - Three-phase AC Volts and Hz (for generators)
 - J1939 percent load and percent torque
 - Custom screens for pumping/compressor applications
 - Display PF, KW, and KVA
 - Momentary start/stop inputs
 - Configurable warm-up idle (timer, oil and engine temperature and ECM control)
 - Stall detection
 - Restart on false start
 - Custom warnings and failures
 - Single or dual float switch input control
 - Built-in weekly scheduler
 - Maintenance counter
 - Preheat and many configurable timers
 - Autostart trigger on sensor value (pressure, temperature, level, voltage)
 - Easy-to-use field configuration from front panel menu (passcode protected)
 - Configurable set point RPM output feature
 - Long-term run
 - Closed loop control on custom sender

- OPTIONS**
- Snap on RelayPak eliminates the need to mount and wire external slave relays for fuel crank and up to two other loads
 - TOUGH-Link remote monitoring and control available with cellular modem
 - Heated LCD version available for operation and display down to -40°C



Snap-on RelayPak





TECHNICAL DATA AND SPECIFICATIONS

Operating Voltage	5.5 to 38 VDC continuous. Cranking dropouts to 0 VDC for 50mS, also meets SAE J1113-11 Standby current draw: 50mA Reverse battery protected Surge withstand and load dump: SAE J1113-11
Vibration and Shock	Meets or exceeds SAE J1455 plus DynaGen's five year accelerated life test
Operating Temperature	Controller function: -40°C to 70°C Display screen viewing: -20°C to 70°C
Electromagnetic Compatibility	Meets or exceeds MIL-STD-461E conducted emissions
Dimensions	4.17" H x 6.5" W x 1.38" D
Weight	0.83 lb
Speed Sensing	Via J1939 bus, magnetic pick-up, tachometer or AC voltage
Inputs:	
AC Voltage Sensing	Single-phase 2 and 3-wire Delta 3 and 4-wire Wye 2, 3 and 4-wire Max 600 VAC (direct connection) true RMS, +/- 1% of full scale
Fixed Sensor Inputs	0-7500Ω engine temperature sender 0-750Ω senders or switches*
Universal Sensor Inputs	0-7500Ω senders, 4-20mA, 0-5V or switch* 0-750Ω senders
Configurable Switched Inputs	With programmable text, auto detect close to +Bat or Gnd
Outputs:	
Switched Outputs	Includes standard fuel and crank outputs, as well as configurable pre-heat 1A max UL pilot duty. Switched to +battery. Short circuit and overload protected
SAE J1939 Communications	Tier II, III and IV engines. Address settings for both controller and the engine ECM
USB Communications	RapidCore™ configuration software. High retention socket accepts standard USB cable
Warranty	Five-year warranty or 17,500 hours

Inputs & Outputs

	Model TG350
J1939 CANbus	X
Magnetic Pick-Up Input	X
Generator Volts	3-Phase
Configurable Switched Inputs	5
Resistive Sensor Inputs	3
Universal Sensor Inputs (Resistive, voltage, 4-20mA)	1
Configurable Switched Outputs (in addition to fuel & crank)	4

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

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