



TG410

GENERATOR CONTROLLER



HIGHLIGHTS

- Designed for complete control, protection and engine instrumentation on mechanically or electronically governed engines
- Three-phase voltage and current metering for generator applications
- Easily configured using the display buttons or RapidCore™ configuration software
- Tier IVF and Euro Stage V compliant. Call the factory for specific engine types
- Offers solutions for variable speed applications and closed-loop control
- OEM private label branding available

FEATURES

- Configurable Diagnostic Trouble Code (DTC) readout
- Conformally coated for protection against moisture and contaminants
- Front panel gasket for water ingress protection
- Configurable remote bump speed control
- Momentary start/stop inputs, automatic shutdowns and warnings
- Adjustable min/max RPM limits and adjustable RPM buttons
- Closed-loop control on custom sender, accepts common senders (VDO, Murphy and more)
- Long term run
- Autostart on low batter and other sensors
- Configurable warm-up idle (timer, oil and engine temperature and ECM control)
- Stall detection and retry on false start
- Custom warnings and failures
- Single or dual float switch input control
- Built-in weekly calendar and maintenance counter
- Preheat and many configurable timers
- Autostart trigger on sensor value (pressure, temperature, level, voltage)
- Easy-to-use field configuration from menu (passcode protected)
- Configurable set point RPM output feature
- IDMT overcurrent shutdown and load imbalance

OPTIONS

- Snap-on RelayPak eliminates the need to mount and wire external slave relays for fuel crank and up to two other loads
- RemotelQ™ remote monitoring and control available with a cellular modem





TECHNICAL DATA AND SPECIFICATIONS

ELECTRICAL DATA

Operating Voltage	5.5 to 38 VDC continuous. Cranking dropouts to 0 VDC for 50mS
Standby Current	60mA @ 12 VDC, 38mA @24 VDC
Surge & Dump Load	SAE J1113-11
Reverse Polarity	Yes

INPUTS / OUTPUTS

Inputs	4 analog inputs: one high impedance one low impedance two configurable (4-20mA, 0—5V, variable resistance 0-240Ω, variable resistance 0-5000Ω, switch to ground) 5 digital inputs: Switched to: VBAT, GND, Open or Closed (Tri-stating)
Outputs	6 switched outputs: 1A high side switches
AC Voltage	3 Phase, 600 VRMS 2% full scale (600V)
AC Voltage Configuration	Single-phase 2 and 3-wire Delta 3 and 4-wire Wye 2, 3, and 4-wire Max 600 VAC (direct connection) true RMS, +/- 2% full scale
AC Current	3 Phase, 5A secondary 2% full scale
Speed Sensing	J1939 bus, magnetic pick-up, tachometer or AC voltage

MECHANICAL DATA

Display	LCD display
Weight	0.83 lbs
Dimensions H x W x D	4.17" x 6.5" x 1.38" (10.59 x 16.51 x 3.51 cm)
Operating Temperature	-40° to +70° C / -40° to +158°F
Vibration & Shock	Meets or exceeds SAE J1455 plus DynaGen's accelerated five-year life test
Electromagnetic Compatibility	Meets or exceeds MIL-STD-461E conducted emissions
Memory	150 event history 16 channel weekly scheduler

COMMUNICATIONS

CANbus	SAE J1939
Modbus	RS-485
USB	Yes