

# DYNAGEN<sup>™</sup>

## TE410 ENGINE CONTROLLER



### HIGHLIGHTS

- Designed for complete control, protection and engine instrumentation on mechanically or electronically governed engines
- Easily configured using the display buttons or RapidCore<sup>™</sup> 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 and front panel gasket for water ingress protection
- Configurable remote bump speed control
- Configurable ramping control with three set points: idle, intermediate and goal RPM
- Adjustable min/max RPM limits and adjustable RPM buttons
- Closed-loop control using feedback from sensors such as level and pressure (maintain-in and maintain-out)
- IDMT overcurrent protection
- Configurable warm-up idle (timer, oil and engine temperature and ECM control)
- Stall detection and load imbalance detection
- 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
- AC current sensing for electronic-driven equipment

### OPTIONS

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





## TECHNICAL DATA AND SPECIFICATIONS

### ELECTRICAL DATA

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

### INPUTS / OUTPUTS

<b>Inputs</b>	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)
<b>Outputs</b>	6 switched outputs: 1A high side switches
<b>AC Voltage</b>	3 Phase, 600 VRMS 2% full scale (600V)
<b>AC Voltage Configuration</b>	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
<b>AC Current</b>	3 Phase, 5A secondary 2% full scale
<b>Speed Sensing</b>	J1939 bus, magnetic pick-up, tachometer or AC voltage

### MECHANICAL DATA

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

### COMMUNICATIONS

<b>CANbus</b>	SAE J1939
<b>Modbus</b>	RS-485
<b>USB</b>	Yes