

# DYNAGEN™



## ENGINE CONTROL PANEL

### HIGHLIGHTS

- Incorporates the [DynaGen™](#) TE/TG350 or TE/TG410 controller into an IP67-rated enclosure
- Remote control-ready for [Tyro™](#) or [Remtron™](#) radio remote control systems
- Fast configuration via front panel interface or RapidCore™ software
- Supports all major diesel engines, including mechanical Tier III, Tier IV Interim and Tier IV Final
- Supports generator or variable speed applications
- 12V and 24V configurations available
- Packaged panel includes vibration mounts and mounting hardware
- OEM private label branding available

### FEATURES

- Supports mechanically governed engines or electronically governed J1939 engines
- Bottom mount 21-pin connector
- Configurable Diagnostic Trouble Code (DTC) readout
- Controller conformally coated for protection against moisture and contaminants
- Front panel gasket for added panel water ingress protection
- Front panel RPM adjustment buttons (TE models)
- Full electronic variable speed control over J1939
- Configurable remote bump speed control
- Configurable ramping control with 3 set points: idle, intermediate and goal RPM
- Adjustable min and max RPM limits
- Single or dual float switch input control
- Fully configurable for analog sensors
- Configurable autostart trigger on sensor value (pressure, temperature, level, voltage)
- Closed loop control using feedback from sensors such as level and pressure (maintain-in and maintain-out)
- Built-in weekly scheduler and configurable maintenance counter
- Easy-to-use field configuration from front panel menu (passcode protected)
- 40A relay outputs for fuel, starter, glow plugs and auxiliary outputs

### OPTIONS

- Plug-and-play engine adapter harnesses available
- [RemotelQ™](#) cloud-based remote monitoring and control available with a cellular modem
- Key switch for main panel ON/OFF





## TECHNICAL DATA AND SPECIFICATIONS

MECHANICAL DATA	
<b>Dimensions (H x W x D)</b>	8 x 8 x 6 inches (203.2 x 203.2 x 152.4 mm)
<b>Enclosure</b>	IP67-rated NEMA enclosure. Clear or tinted polycarbonate cover
<b>Temperature</b>	Operating Temp: -40° to +70° C / -40° to +158°F Storage Temp: -20° to +70° C / -4° to +158°F
<b>Battery</b>	Range: 5.5 – 38 VDC Cranked dropout to 0 VDC: 50ms Standby current: 75mA

COMMUNICATION PORTS	
<b>CANbus J1939</b>	1
<b>Modbus RS485</b>	1 (optional)
<b>USB</b>	Slave (front-mounted optional)

INPUTS AND OUTPUTS	
<b>AC Voltage Sensing* (electric-driven systems)</b>	3-Phase, 600VRMS, 1% of full scale
<b>AC Voltage Configuration*</b>	Single-phase 2 and 3-wire Delta 3 and 4-wire Wye 2, 3 and 4-wire Auto-voltage detection*
<b>AC Current Sensing*</b>	Accepts 5A secondary CTs, +/- 2% of full-scale accuracy
<b>AC Power Sensing*</b>	Power factor, real power, reactive power, apparent power
<b>Internal Sensors</b>	4 (2 configurable 4-20ma, 0-5, resistive)
<b>Switched Inputs</b>	5
<b>Switched Outputs</b>	6
*For generator versions only	

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