DYNAGEN™

DynaGen 200
ENGINE CONTROLLER

HIGHLIGHTS

- A compact controller for manual and autostart operations for complete control, monitoring and protection for electronically and mechanically governed engines
- Rugged, IP67-rated for water and dust ingress protection
- Tier 4F and Euro Stage V compliant
- Patented QR code diagnostics through RemoteIQ™ QR-Assist
- Intuitive, user-friendly menus accessible via a high-resolution color display

FEATURES

- Rugged 2.8” QVGA sunlight viewable color display
- Multilevel PIN-based menu access
- Configure the controller through intuitive display menus
- Advanced throttling capabilities
- Customizer software allows users to create, modify and save configuration files and load them onto the panel via the USB
- Six Inputs:
  - Engine RPM (Tach, DC Alternator, AC Frequency, Mag Pickup)
  - Two (one high and one low impedance) analog inputs
  - One (4-20mA, 0—5V, variable resistance 0-240Ω, variable resistance 0-5000Ω, switch to ground) configurable analog input
  - Three digital inputs: Switched to: VBAT, GND, Open or Closed (tri-stating)
- Three Outputs:
  - Three 1A high side switched outputs
- Configurable increments and manual ramp rate for throttle controls
- Configurable seven-stage autoramp profile
- Software configurable resistors for J1939 CAN and serial Modbus

OPTIONS

- Private label branding is available for OEMs
- Expand remote monitoring capabilities with Messenger Lite and RemoteIQ™

TECHNICAL DATA AND SPECIFICATIONS

ELECTRICAL DATA	
Operating Voltage	6-36 VDC
Standby Current	60mA @ 12 VDC, 38mA @24 VDC
Surge & Dump Load	SAE J1113-11
Reverse Polarity	Yes

INPUTS / OUPUTS	
Inputs	3 analog inputs: one high impedance one low impedance one configurable (4-20mA, 0—5V, variable resistance 0-240Ω, variable resistance 0-5000Ω, switch to ground)
	3 digital inputs: Switched to: VBAT, GND, Open or Closed (Tri-stating)
Outputs	3 switched outputs: 1A high side switches, logic level driven capable
Speed Sensing	J1939 CANbus, magnetic pick-up, tachometer or AC voltage

MECHANICAL DATA	
Display	2.8” QVGA color display
Weight	0.55 lbs (0.45 kg)
Dimensions **W x H x D**	4.0 in x 4.0 in x 2.0 in (10.6 x 10.6 x 5.08 cm)
Protection	IP67-rated
Operating Temperature	-20° to +70° C (-4° to +158° F)
Vibration and Shock	Composite vibration profile simulating five years of field operation SAE1455: Random profile for engine-mounted panels on all three axis SAE J1455: Swept sine on all three axis

COMMUNICATIONS	
CANbus	SAE J1939
Modbus	RS-485
USB	Yes