



CP500

ENGINE CONTROL PANEL



HIGHLIGHTS

- A compact enclosed panel for manual and autostart operations for complete control, monitoring and protection for electronically and mechanically governed engines
- Rugged, weather-resistant housing with vibration isolation mounts
- Tier 4F and Euro Stage V compliant
- Patented QR code diagnostics through RemoteIQ™ QR-Assist
- Intuitive, user-friendly menus are accessible via a high-resolution color display

FEATURES

- Rugged 2.8" QVGA sunlight viewable color display
- Multilevel PIN-based menu access
- Configure the panel 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: VBAT, GND, Open and Closed (tri-stating)
- Three Outputs:
 - ECU/Fuel control
 - Starter
 - Built-in alarm, preheat and aux out
- Supports CANbus J1939 and RS-485 Modbus communications
- Configurable increments and manual ramp rate for throttle controls
- Configurable seven-stage autoramp profile

OPTIONS

- Compact Aluflex or compact NEMA enclosures
- Integrated E-stop
- Expand remote monitoring capabilities with Messenger Lite and RemoteIQ™





TECHNICAL DATA AND SPECIFICATIONS

ELECTRICAL DATA

Nominal System Voltage	12-24 VDC
Operating Current	100mA @12V (outputs at 0A)
Reverse Polarity	Yes

INPUTS / OUTPUTS

I/O Harness Interface	Analog input M12
	Autostart digital inputs (CPC)
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: VBAT, GND, Open and Closed (Tri-stating)
Outputs	3 switched outputs: 1A high side switches, logic level driven capable

MECHANICAL DATA

Standard Aluflex H x W x D	7.5 in x 8.0 in x 6.0 in (190.5mm x 203.2mm x 152.4mm)
Standard NEMA H x W x D	8.0 in x 8.5 in x 6.5 in (203.2mm x 215.9mm x 165.1mm)
Clock	Battery-backed real-time clock
Display	2.8" QVGA color display
Vibration and Shock	Vibration/impact and drop tested to 1 meter on concrete
Operating Temperature	-20° to +70° C / -4° to +158° F
Engine Harness Interface	HDP26-24-21SE (D-21p)

COMMUNICATIONS

CANbus	SAE J1939
Modbus	RS-485
USB	Yes

CONFIGURATIONS

Compact Aluflex	D21, CPC, M12, buzzer, protected front USB port
	D21, CPC, M12, buzzer, protected front USB port, e-stop
Compact NEMA	D21, CPC, M12, buzzer, protected front USB port
	D21 on the bottom, protected front USB port