1 OF 2



POWER ZONE® CONTROL PLATFORM Power Zone® 410 Controller



Features

The Generac Power Zone® Digital Control Platform is a fully integrated and multipurpose family of controllers for Generac's generator systems.

Standard Features

- 128 x 64 Graphical Display with Heater
- Multi-Lingual
- Full System Status
- · Three Phase Sensing Digital Voltage Regulator
- Full Range Standby Operation
- · Full System Status
- Three Phase AC Volts
- Three Phase Amps
- kW
- Power Factor
- Oil Pressure
- Water Temperature
- Oil Temperature*
- Oil Level*
- Fuel Pressure and Level
- Engine Speed
- Battery Voltage
- Alternator Frequency
- Time
- Date
- Line Power and Gen Power
- Run Hours
- Service Reminders
- Fault History (Alarm Log)
- Remote Communications
- · Programmable Auto Crank
- Emergency Stop
- On/Off Manual Switch
- · Not in Auto Flashing Light
- Selectable Low Speed Exercise
- NFPA 110 Capable**
- 5A Integrated Battery Charger ◊

Standard Protections

- Low Oil Pressure
- Low Coolant Level
- · High/Low Coolant Temperature
- · Oil Temperature
- Over/Under Speed
- Over/Under Voltage
- Over/Under Frequency
- Over/Under Current
- Over Load
- Battery Voltage
- Battery Charger Current
- Phase to Phase and Phase to Neutral Short Circuits (I²T Algorithm)
- Ground Fault

Display

- · Easy Menu Structure
- · Multi-Lingual
- On Screen Editable Parameters
- · Key Function Monitoring
- Three Phase Voltage, Amperage, kW, kVa, and kVAr
- Selectable Average or Line to Neutral Voltage Measurements
- Frequency
- RPM
- Engine Coolant Temperature
- Engine Oil Pressure
- Engine Oil Temperature
- Battery Voltage
- Warning and Alarm Indication
- Diagnostics
- Maintenance Events/Information
- Hourmeter

Operation Disabled when Optional 10A Battery Charger is Installed

^{**} See Modular NFPA 110 Components Section



POWER ZONE® CONTROL PLATFORM Power Zone® 410 Controller

Control Panel

- · Auto/Off/Manual
- Operation Through Onboard Buttons or Optional Key Switch
- Indication Through Display Screen and LEDs
- · Audible Alarm and Silence[†]
- Auxiliary Shutdown Rocker Switch
- Not in Auto Indication

Voltage Regulation (Single or Three Phase Module Options)

- Digital Control
- · Three Phase Sensing
- Variable V/F Slope Settings
- · Negative Power Limit
- · Loss of Sensing Protection
- Fault Protection (I²T Function)
- · High Voltage Limit
- Low Voltage Limit
- · Maximum Power Limit
- ±0.5% Voltage Regulation
- ±0.5% Stability

Governor Functionality

- · Speed Control through ECM Integration
- · Soft Start Ramping (Multiple Steps)

Customer Ports

- 2 RS-232
- 2 RS-485
- 1 CANBus

Qualification Testing

- · Life Test in Environmental Chamber
- Temperature Rating -40° C to +70° C
- Vibration Tested and Protected

Connections[‡]

- · 7 Analog Inputs
- 1 Analog Output (0-10 VDC)
- 6 AC Voltage Sensing Inputs
- 3 CT Inputs
- 16 Digital Inputs
- · 13 Digital Outputs
- · Comms Ports
- 1 CANbus Port
- 1 USB Port (for Configuration Transfer and Firmware Upgrades)
- 1 RS-485 Modbus Master Port

(for External RAP/RRP/HTS/External I/O Modules)

- 1 RS-485 Modbus Slave Port (for other uses, e.g. Building Management)
- 2 RS-232 Communication Ports (for Tether or other uses)

Codes And Standards

- UL 6200
- C-ETL-US
- CE
- · NFPA 110 Capable

Modular NFPA 110 Components§

- · Remote Annunciator
- NFPA Accessory Module
- Key Switch
- Alarm Horn
- Emergency Stop
- · 10A External Battery Charger



Controller with Optional NFPA Accessory Module