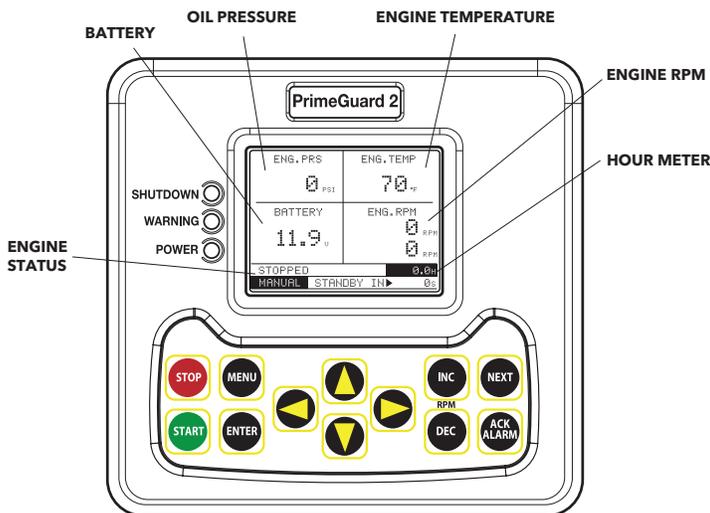# Godwin PrimeGuard 2 Controller

WITH FIELD SMART TECHNOLOGY

Godwin's diesel-driven automatic Dri-Prime® pumps include the Godwin PrimeGuard 2 automatic level controller, standard on all electronic diesel engines and available for mechanical diesel engines. PrimeGuard 2 is designed for use with diesel engines – up to and including Final Tier 4 – to communicate with the Engine Control Unit (ECU). The Godwin PrimeGuard 2 is a fully programmable microprocessor engine control system that allows for inputs from flow meters, level transducers, pressure transducers or standard floats. Using any of these systems, your Godwin Dri-Prime pump can start and stop automatically with no operator intervention required.

Features

- High performance, state-of-the-art, touch sensing digital controller

- Manual, automatic, or remote starting capabilities

- Security levels allow limited to full access of controller functionality

- Includes eight programmable relays and 66 selectable features, including pump running, pump failure, and others

- RS-485 communication ports enable communication with SCADA and other alarm equipment

- Capable of being run by pressure/level transducer with backup float switch operation

- Maintains an "event history" of all warning alarms (up to 32)

- User can pre-set engine rpm to maintain flow and head parameters when running unattended

- Tracks oil and filter usage and alerts operator when replacement is recommended

- Diesel engine warm up/cool down cycle available

- Real-time clock with battery back-up

- For interim and Final Tier 4 diesel engines, shows level of soot in the diesel particulate filter (DPF) and if engine needs regeneration. When the filter needs regeneration, the Godwin PrimeGuard 2 can be used to initiate the cycle.

Godwin PrimeGuard Controller Basic Operation

START	One-touch engine starting	DEC	Decrease RPM
STOP	One-touch engine stopping	NEXT	Exits parameter menu screen returns to engine status display
▲	Directional arrows for screen navigation and data input	ACK ALARM	Acknowledges alarms
MENU	Menu		
ENTER	Enters selected data		
INC	Increase RPM		

BATTERY
OIL PRESSURE
ENGINE TEMPERATURE
ENGINE RPM
HOUR METER
ENGINE STATUS
SHUTDOWN
WARNING
POWER

PrimeGuard 2

Default "Home" screen illustrated above.

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Remote Monitoring and Control

Field Smart Technology expands the PrimeGuard's functionality by collecting engine and pump data in one-minute intervals. Data is transmitted to a password protected website for viewing and reporting. FST communicates through both cellular and satellite networks to provide a reliable connection in the most remote locations. FST allows users full control over the unit with the ability to start, stop, and vary speed remotely. The website displays the same information that is shown on the PrimeGuard 2 panel so operators know exactly what their remote equipment is doing. These features allow for the optimal use of labor and can eliminate the need for on-site pump watch.

FST Features and Benefits

- Monitor engine and pump parameters
  - Troubleshoot remotely with ECU codes
  - Ensure proper system operation
  - Bypass without pump watch
- Start, stop, and vary speed remotely for improved system control
- Cellular and satellite communication offers a reliable and strong connection

- Log data and hours for accurate, easy reporting
- Alarm for engine off/on, and failure
- Automatic geofence alerts with streamlined tracking
- Integrate with asset management software to manage equipment from a single platform

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Pump data as displayed on the website

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HOME | FLEET | COMMANDS | REPORTS | BRANCHES | ADMIN

Fleet Summary

1D | 5D | 30D | 60D | 1Y   From 2013-09-01   To 2013-10-01   Fleet Number A11

Fleet Number	Commands	Location	Date	Time	Eng Hrs	Eng Status	Eng Temp	Eng RPM	Batt Volt	Oil Press	Fuel Rate	Fuel Level	Eng Load	Eng Soot	Last Run Date	Pump Data	Alarms
NC350 B2858	▶	Raleigh, NC	2013-10-01	16:14:16	24.1	ON	190 °F	1266	28.4	44 PSI	4.1 GPH	0 %	43 %	0 %	2013-10-01	P	🟢

HOME | FLEET | COMMANDS | REPORTS | BRANCHES | ADMIN

Asset History - NC350 B2858

1D | 5D | 30D | 60D | 1Y   From 2013-09-26   To 2013-10-01   Fleet Nu NC350

Location	Date	Time	Eng Hrs	Eng Status	Eng Temp	Eng RPM	Batt Volt	Oil Press	Fuel Rate	Fuel Level	Eng Load	Eng Soot	Suct Press	Disch Press	Flow Rate	Sump Level	Clutch Count	Alarms
Raleigh, NC	2013-10-01	16:14:16	24.1	ON	190 °F	1266	28.4	44 PSI	4.1 GPH	0 %	43 %	0 %	0.0 PSI	17.3 PSI	4092 GPM	3.4 ft	0	🟢
Raleigh, NC	2013-10-01	14:01:49	21.9	ON	190 °F	1258	28.3	45 PSI	3.8 GPH	0 %	42 %	0 %	0.0 PSI	16.5 PSI	4092 GPM	4.3 ft	0	🟢
Raleigh, NC	2013-10-01	13:17:35	21.1	ON	190 °F	1258	28.3	47 PSI	3.8 GPH	0 %	39 %	0 %	0.0 PSI	18.4 PSI	3758 GPM	4.7 ft	0	🟢

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Godwin PrimeGuard 2 Controller with Field Smart Technology 09.21.15