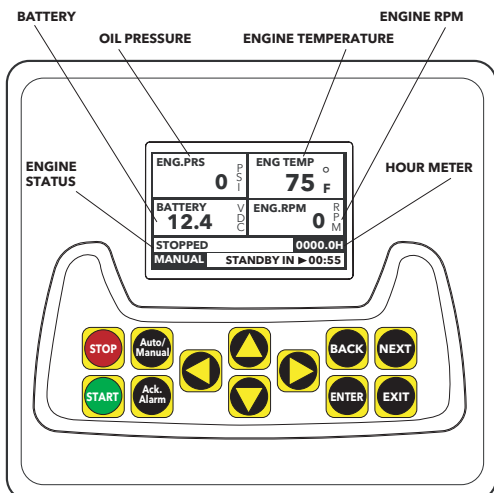


Godwin PrimeGuard™ Controller with Field Smart Technology

Godwin's diesel-driven automatic Dri-Prime® pumps include the Godwin PrimeGuard automatic level controller, standard on all electronic diesel engines and available for mechanical diesel engines. The Godwin PrimeGuard 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-232 and RS-485 communication ports enable communication with SCADA and other alarm equipment
- Capable of auto-throttling engine rpm in response to changing pressure/level/flow transducer signals
- 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



Default "Home" screen illustrated above.

Godwin PrimeGuard Controller Basic Operation

- START** One-touch engine starting
- STOP** One-touch engine stopping
- Auto/Manual** Switches between auto and manual modes
- Ack. Alarm** Acknowledges alarms
- BACK** Navigates back across status screens
- NEXT** Navigates forward across status screens
- ENTER** Enters selected data
- EXIT** Exits current screen to four quadrant information screen

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Remote Monitoring and Control

With the functionality of our Field Smart Technology (FST), engine and pump data can be collected in one-minute intervals and transmitted to a password-protected website for viewing and data logging. FST communicates through cellular signal or satellite connection to provide the same information on the website that is shown on the PrimeGuard panel. It also provides the ability to start and stop the pump from the website, which allows for better use of labor and resources. Using FST can eliminate the need for on-site pump watch.



FST Features and Benefits

- Monitor engine and motor parameters including:
 - Engine speed
 - Percent load, fuel consumption
 - On/Off
 - Failure and shutdown
 - Oil pressure
 - Engine temperature
 - Engine hours
 - Percent soot accumulation for Tier 4 engines
- Monitor pump operation parameters including:
 - Suction pressure/vacuum
 - Discharge pressure
 - Flow
 - Sump level
- Start and stop remotely
- Cellular or satellite communication
- Log data
- Alarm
- Locate the unit through GPS location

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Pump data as displayed on the website

HOME FLEET COMMANDS REPORTS BRANCHES ADMIN

Fleet Summary

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	●

Asset History - NC350 B2858

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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