

Fire Pump Controller

Diesel Engine Controller For Engine Driven Fire Pumps

Catalog Sheet • June 2009, replaces May 2003

LX-3000

The LX-3000 Fire Pump Controller is a combined automatic and manual diesel engine driven fire pump controller. These controllers are specifically designed and tested to be used with 12V or 24V fire pump diesel engines, lead-acid batteries only.

Included as standard in the LX-3000 controller is the Hubbell LX-750, a dual, current limiting, switch mode battery charger which assures both sets of batteries are properly and adequately charged at all times.

These controllers include all the required features to provide start and stop signals to the engine, monitor engine conditions and to provide audible and visual alarms for engine and controller conditions.

Approvals

Hubbell's fire pump controllers are listed by Underwriters' Laboratories Inc., and approved by Factory Mutual and New York City. They are built to meet or exceed the requirements of NFPA 20 (Installation of Centrifugal Fire Pumps), NFPA 70 (National Electrical Code). NEMA Member.

Standard Features

- Rugged NEMA Type 2, drip-proof enclosure wall mounted with optional floor mounting kit.
- Maximum utilization of solid state components.
- All Logic as called for by Selector Switch.
- Battery low voltage detection and lockout.
- Tamper proof cranking sequence with dead battery lockout and sequence change-over to alternate battery.
- Oil pressure bypass delay.
- Dual Battery Charger for 12V or 24V with solid state automatic proportioning of output and dual ammeters and voltmeters.
- The pre-punched conduit holes greatly reduce the possibility of metal chips and cutting oil falling on electrical components resulting in possible failure.
- High intensity LED display for ease of viewing, long life and reliability.
- LED display test on power up, and by means of push button.
- Diagnostic LED's on inputs and outputs for ease of troubleshooting.
- Pressure switch simulation push button.
- Engine run simulation button to test controller without starting the engine. (Start must be disconnected).
- All PC boards have plug-in connectors for easy removal and replacement.
- Built-in system pressure gauge/transducer



Standard Features Cont.

- Electronic pressure switch (no Mercury). Includes status LED's for Excitation Voltage (gauge connected), Relay Status, Caution (start/stop settings reversed).
- Weekly exerciser includes a Super Cap for a minimum of 24-hour backup in the event of power loss.

Many features previously supplied as options are now standard. These include:

- Pressure switch start delay, adjustable, 0-15 seconds.
- Automatic Stop, field selectable to enable or disable.
- Audible alarm if left in Manual for more than 15 minutes without the engine running.
- AC power loss, field selectable to enable or disable engine start or audible alarm. Includes adjustable time delay, 0-90 seconds.
- Remote start input
- Lockout input.

Audible Alarms:

- Overspeed
- Low Oil Pressure
- High Water Temperature
- Fail to Start
- Battery 1 Fail
- Battery 2 Fail
- Charger 1 Fail
- Charger 2 Fail
- AC Power Fail (selectable)

Contacts for remote annunciation:

- Engine Run - Three sets of form C contacts
- Trouble - Two sets of form C contacts
- Control Switch in Auto - Two sets of form C contacts
- Overspeed - 1 set of form C contacts
- Low Oil Pressure - 1 set of form C contacts
- High Water Temperature - 1 set of form C contacts
- Fail to Start - 1 set of form C contacts
- Battery 1 OK - 1 set of form C contacts
- Battery 2 OK - 1 set of form C contacts
- Charger Fail - 1 set of form C contacts
- AC Power Loss - 1 set of form C contacts

LED Display:

- Automatic mode
- Manual mode*
- Remote Start*
- Overspeed
- High Water Temp
- Battery 1 Fail
- Charger 1 Fail
- AC Power Loss*
- Test mode*
- Low Water Pressure*
- Engine Run
- Low Oil Pressure
- Fail To Start
- Battery 2 Fail
- Charger 2 Fail

* Previously optional

Dimensions

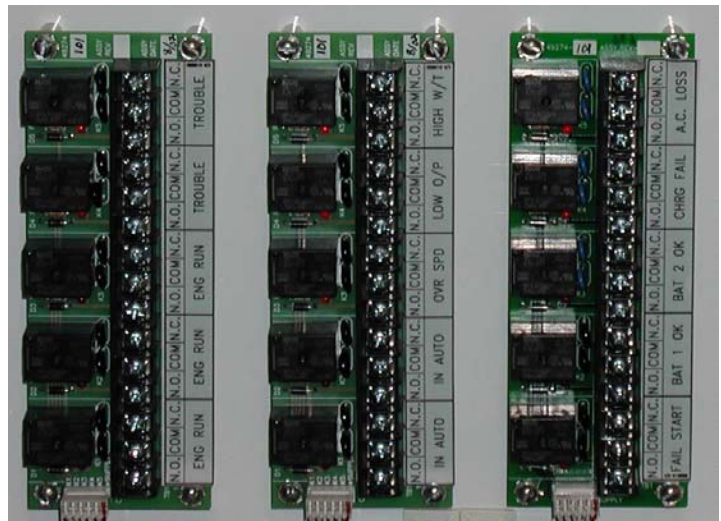
Weight	150lbs
Width	19.00
Height	46.72
Depth	7.00

Standard enclosure - NEMA 2

Options

- Special Plumbing - 600 PSI or Stainless Steel plumbing for salt-water applications.
- Control transformation (when AC voltage > 115V).
- Heater with switch, thermostat or humidistat.
- Pump house alarm lights -- low fuel level, low room temperature, relief valve open, low reservoir, empty reservoir, flow meter on, low suction pressure.
- Contacts for pump house, engine and controller alarms.

Consult factory for additional options.



Alarm Relay Cards

Consult the factory for information on other fire pump controllers.



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