

hubbell industrial controls, inc.



Controls for Electric and Diesel Fire Pumps
Remote Alarm Panels

Low Suction Pressure Shutdown Panels

Listed by Underwriter's Laboratories, Inc., and ULC. Approved by Factory Mutual and New York City Dept. of Buildings, Materials and Equipment Acceptance. Meet or exceed requirements of NFPA 20 and NFPA 70.

Full Service Electric Fire Pump Controls

Available with or without Automatic Transfer Switch.

Lexington fire pump controllers for use with electric motor driven fire pumps feature exclusive LXi Microprocessor Logic and Control. LCD display shows system pressure and simultaneous reading of all phases for amps and volts in real time. Events are shown with date and time for each occurrence. A printer is available upon request. Data log can be easily saved to a laptop computer. All units are manufactured using a Coordinated Design philosophy; they are engineered, built, tested and labeled by one manufacturer. A new small cabinet design, available on some models, saves pump room space. The units are suitable for use as service entrance equipment. Type 2 enclosure is standard.

Sixteen models are available, eight with and eight without Automatic Transfer Switches (ATS) for pumps from 208–480VAC and 15–400HP. All models feature front accessible components. Controllers have separate and independent pressure and minimum run time settings.

Mod <u>el</u> w/o ATS	Model with ATS	Type of Starting	Motor Requirements
LXi-1100	LXi-2100	Solid State Soft Start/Stop	Standard Motor
LXi-1200	LXi-2200	Full Voltage (across the line)	Standard Motor
LXi-1300	LXi-2300	Autotransformer	Standard Motor
LXi-1400	LXi-2400	Primary Resistor	Standard Motor
LXi-1600	LXi-2600	Manual - Secondary Resistor Speed Regulated	Wound Rotor Motor
LXi-1700	LXi-2700	Part Winding	Special Motor w/ Part Winding
LXi-1800	LXi-2800	Wye-Delta Closed Transition	6 or 12 Lead Delta Wound Motor
LXi-1900	LXi-2900	Wye-Delta Open Transition	6 or 12 Lead Delta Wound Motor



LXi-1200

Controllers with ATS include Full Featured LX450 Automated Transfer Switch:

- Electrically operated mechanically held on both emergency and normal power source sides.
- Full protection for all phases of Normal and Emergency sources.
- All transfer and retransfer time delays are field adjustable.
- Motor load decay time delay, to prevent higher than normal inrush current when transferring large motor loads.
- Test switch to simulate normal power failure.
- Phase loss and phase reversal monitor to initiate transfer to emergency power.
- Audible and visual alarm to indicate isolating switch is open.
- High short circuit ratings.

Controller for Diesel Engine Driven Fire Pumps

Combined Automatic and Manual Operation

The LX-3000 is a controller for 12V or 24V negative or positive ground diesel powered fire pumps. It provides start and stop signals to the engine, monitors engine conditions, and provides audible and visual alarms for engine and controller conditions. It features an integral dual, current limiting, switch mode charger which assures that the engine batteries are properly and adequately charged at all times.

Other features include:

- Rugged Type 2, drip-proof enclosure. Wall mounted or optional floor mounting kit.
- Tamper proof cranking sequence with dead battery lockout and sequence change-over to alternate battery.
- High intensity LED display for ease of viewing.
- LED display test on power up.
- Diagnostic LEDs on inputs and outputs for ease of troubleshooting.
- Pressure switch simulation pushbutton.
- Engine run simulation button to test controller without starting engine.
- Adjustable 0–15 second pressure switch start delay.
- Automatic stop. Field select "enable" or "disable".
- Audible alarm if left in manual for more than 15 minutes with engine running.
- Audible alarms for: Overspeed, Low Oil Pressure, High Water Temperature, Failure to Start, Battery Failure, Charger Failure, AC Power Failure.

LX-3000

Limited Service Fire Pump Controllers

Available with or without Automatic Transfer Switch.

Limited service fire pump controllers monitor system operation by means of an adjustable pressure switch (high and low set points). If system water pressure drops below the minimum set point, the controller brings the pumping unit on-line for a fixed period of time. At the end of the fixed running period, and if the system water pressure is above the high pressure setting, the controller will automatically shut down the pump. These controllers may be used, where acceptable to jurisdictional authority, for small electric motor driven fire pumps and booster pumps with a maximum of 30 hp at 200–600VAC, depending on model. Model LX-1500 is Pump Controller only. Model LX-2500 includes automatic transfer switch

LXi-1500

Jockey Pump Controllers

Maintain Uniform System Pressure without cycling Main System Pump.

Jockey Pump Controllers are for fire protection applications where it is desirable to maintain uniform system pressure by the use of a maintenance pump. The controllers detect minor fire protection water system leakage and automatically bring jockey or make-up pumps on line to maintain pressure. Thus there is no need to cycle the main fire pump. Controllers are available either three phase (model LX-600) for motors to 25 hp. or single phase (model LX-601) for motors to 3/4 hp.

Features include:

- Rugged enclosure with one point latch, flanged door
 - (NEMA type 3R on LX-600, NEMA type 1 on LX-601).
- Pressure switch adjustable from 10-232 psi .
- Front mounted controls.
- Fusible disconnect switch on LX-600 (Type J fuses optional).

LX-600

Remote Alarm Panel

Meets NFPA 20 specifications requiring Remote Alarm Panel when Pump Room is not constantly attended.

The LX-908 Remote Alarm Panel is designed to meet NFPA 20 specifications. The panel should be installed in a location that is under full time supervision if the pump house or pump room is not constantly attended. The alarm panel can be used with electric motor driven or diesel engine driven fire pumps.

- Reliable solid state printed circuit board.
- NEMA Type 1 enclosure for indoor wall mounting.
- All alarm and normal operation LEDs and controls front mounted.
- "Silence Alarm" and "Push-to-test" pushbuttons.
- Door mounted audible alarm.
- Operating temperature range of 41°F (5°C) to 104° (40°).
- Battery backup optional.

LX-908

Low Suction Pressure Alarm and Shutdown Panel

Available with either Automatic or Manual Reset.

LX-960 panels provide pump shutdown in the event a low suction pressure condition occurs. They can be used with electric or diesel driven fire pumps. The LX-960 is intended for use where local authority mandates pump shutdown in the event of low suction pressure, not allowed by NFPA 20.

- Visual and audible alarm indicating "Low Suction Pressure".
- Visual indication of "Control Power Available" and "Suction Pressure Normal".
- Surface mounted NEMA Type 1 enclosure.
- All alarms and controls front mounted.
- Operating temperature range of 41°F (5°C) to 104° (40°).

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