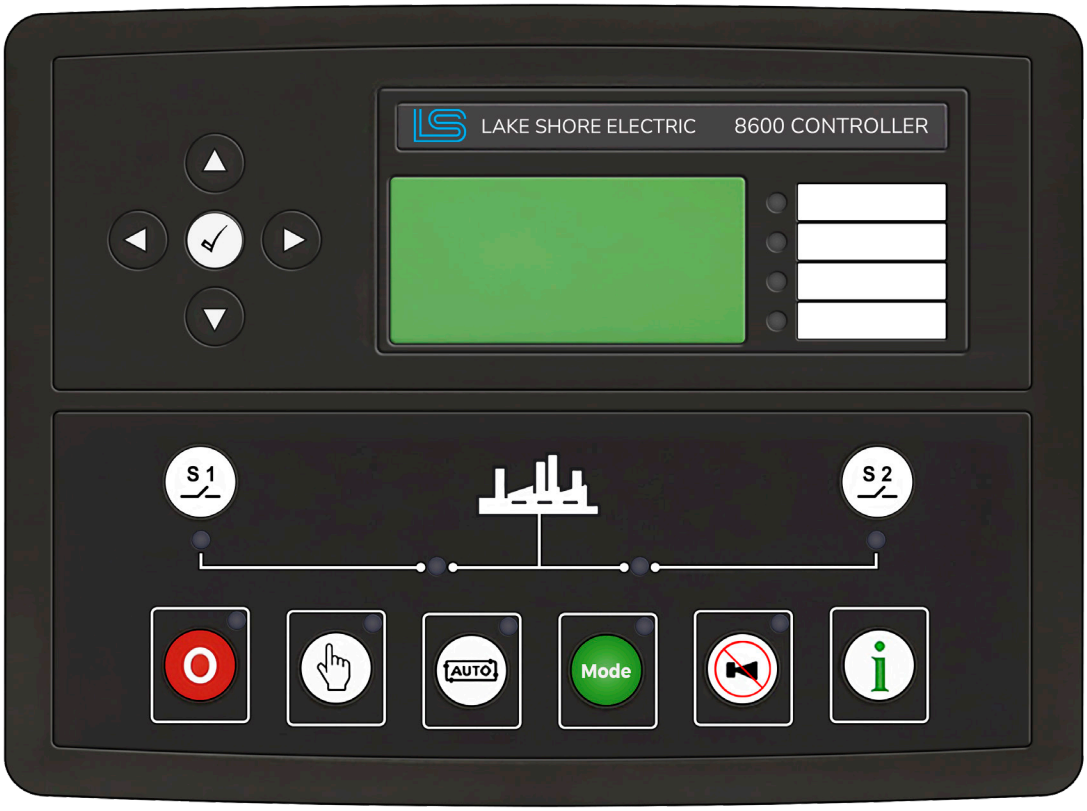
LAKESHORE
ELECTRIC CORPORATION

TRANSFER

LSE 8600 Controller Quick Start Guide



Global Headquarters
Lake Shore Electric
205 Willis Street
Bedford, OH 44146 USA

Contact Information
P: 440.232.0200
F: 440.232.5644
W: lake-shore-electric.com/technical-support

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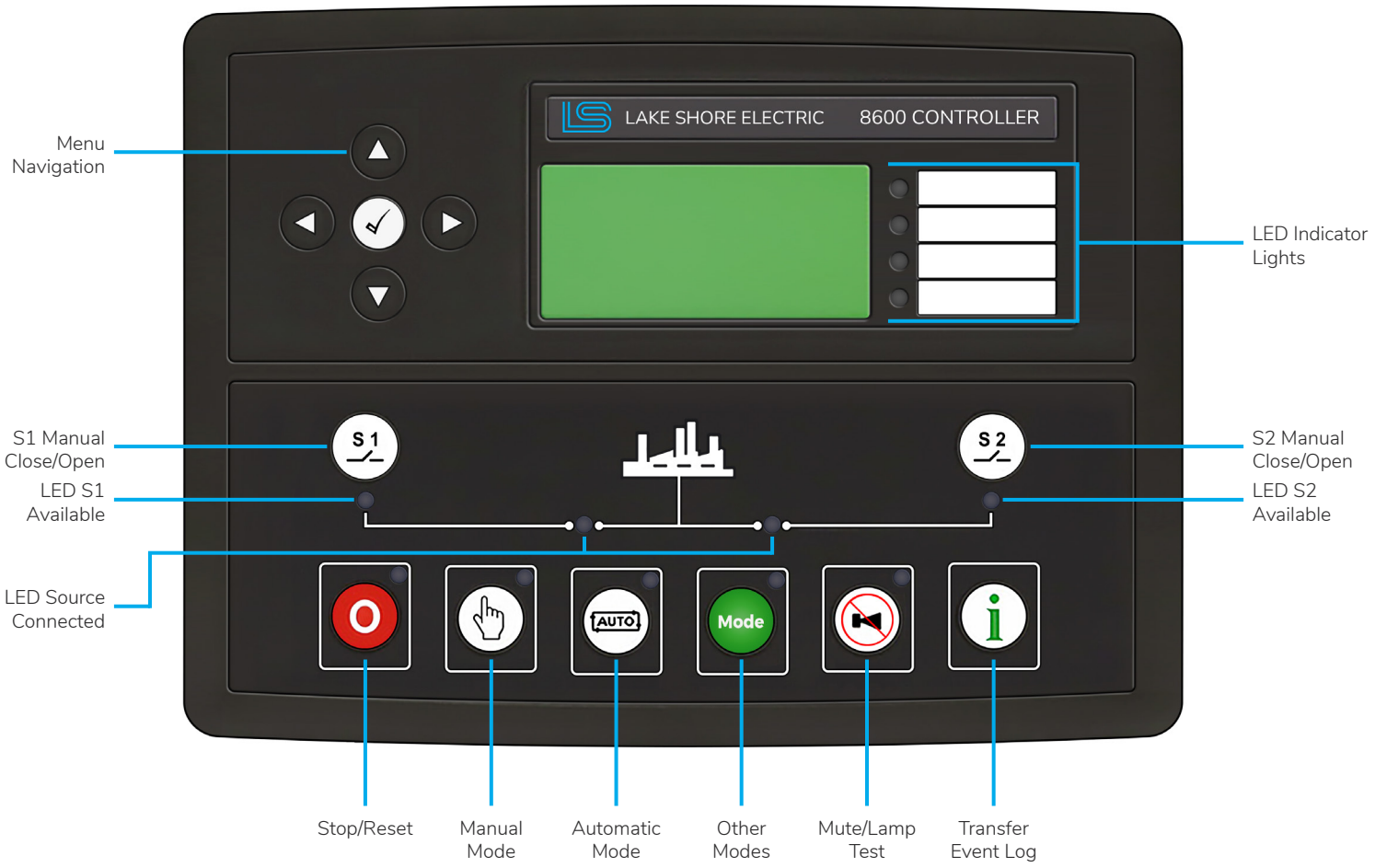

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Menu Navigation
Used for navigating the instrumentation, event log, and configuration screens.

S1 Manual Close/Open
Used to manually operate S1

LED - S1 Available
Illuminated when S1 is within limits and able to take load

LED - Source Connected
Illuminated when corresponding source is supplying the load

LED Indicator Lights
Not in Auto
Load Demand Inhibit
S1 Failed in the last 72 hours
Generator Exercising

S2 Manual Close/Open
Used to manually operate S2

LED - S2 Available
Illuminated when S2 is within limits and able to take load

Stop / Reset
Places the module into Stop / Reset mode, and if held for 5 seconds, will clear any alarm conditions for which the triggering criteria have been removed.

Manual Mode
Places the module into Manual mode to allow manual control of the ATS functions.

Automatic Mode
Places the module into Automatic mode to allow for the module to control the function of S1 and S2 automatically.

Mode
Allows the user to cycle through and select additional operating modes. The modes available are Test On Load, Test Off Load, Prohibit Return, & S1 until instructed.

Mute / Lamp Test
Silences the audible alarm if sounding and illuminates all the LEDs as a lamp test feature.

Transfer Event Log
Displays the reason, time, date & duration for the most recent transfer.

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ATS Initial Installation

1. Battery Power Control Wire:
   The battery power control wires will need to be installed from the generator batteries prior to energizing the controller. If the generator battery power is 12VDC, the positive will be terminated on terminal 027 and the negative will be terminated on terminal 036. If the generator battery power is 24VDC, the positive will be terminated on terminal 025 and the negative will be terminated on terminal 036. Please refer to the order specific drawings included with the equipment for more information.

   Note: If the ATS was purchased with a DC UPS, disregard this step. If 12VDC or 24VDC is not available and the DC UPS was not purchased, please contact Lake Shore Electric.

2. Engine Start Control Wire:
   The engine start control wires will need to be installed prior to energizing the controller. The Engine Start output from the controller is a Form "C" output. The wire terminations for the engine start functions will need to be coordinated with the generator manufacturer to determine the correct input is used for the application. For the normally open contact, terminate the wires from the generator on terminals ESNO and COM. For the normally closed contact, terminate the wires from the generator on terminals ESNC and COM. Please refer to the order specific drawings included with the equipment for more information.

ATS Control Start-Up

1. Close the DC Control Power fuse.

2. Close and latch the main door of the ATS.

3. The Controller will boot up in "Auto" mode.
   - If utility power is available, the ATS will close the "NS" switch (S1) and connect the load to utility power.
   - If utility power is not available, the ATS will start the generator, close the "ES" switch (S2), and connect the load to generator power.

4. The ATS is now operational.

   Note: Any time the controller loses DC power, it will boot up in "Auto" mode when DC Power is available.

Controller Navigation & Settings

Simultaneously pressing the Check button ✓ and Stop/Reset button O allows access the "Editor - Display" screen, where the below timers and settings can be adjusted:

- Current Date & Time
- Plant Exerciser
- S2 Start Delay – Time Delay Engine Start
- S2 Warming – S2 Warm Up Time Before Loading
- Elevator Delay – Auxiliary Contact Before Transfer
- Non-Sync Transfer – Time Delay in Neutral
- Check Sync Transfer (Closed Transition Applications)
- S2 Return Delay – Time Delay Return to Utility Power
- S2 Cooling – Engine Cooldown Timer
- S2 Fail to Stop Delay

For further information on navigation and settings, please visit lake-shore-electric.com/documents-hub/ to view and download the full Automatic Transfer Switch Operation & Maintenance manuals.

Technical Support

Need help? Technical support can be reached by visiting lake-shore-electric.com/technical-support/

⚠ WARNING

When working on equipment of this type, extreme danger of electrocution exists that may result in severe injury or death. Do not attempt any repairs or adjustments to this equipment without first taking the appropriate precautions to prevent personal injury and equipment damage. During installation and use of this product, comply with the National Electrical Code (NEC), federal, state, and local codes, as well as all other applicable safety codes. Main utility power must be off during installation, while performing equipment maintenance outside the equipment's normal maintenance scope, and when performing required maintenance on any power cable(s) connected to the equipment.

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