



Lazzara LSX Quad 75

Introduction :

As vessels become increasingly complex, there is a need to better integrate the various systems on the boat and to create a more rewarding user experience.

E-PLEX® is the next-generation multiplexing technology providing cutting edge system integration solutions. E-PLEX® electronically connects engines, generators, lighting, HVAC, audio/video and other equipment. The result is a seamless, monitoring and control solution with dramatically increased system functionality.

Powered by a patented, multiplexing technology that allows power and data to be transported over a simple, two-wire bus, E-PLEX® offers scalable, flexible solutions at competitive costs.

Features :

Intuitive yet sophisticated, E-PLEX® has a wide array of displays and interfaces that provide the end-users with improved monitoring and control. In a typical application, E-PLEX® can manage :

- AC & DC power distribution
- Control and monitor tank levels
- Manage generators and inverters
- Control lighting
- Control air conditioning
- Engine monitoring
- GPS, security and multimedia

Benefits :

- With distinct advantages in hardware, software, user interfaces and implementation software, E-PLEX® enables simple and cost-effective system integration.
- E-PLEX® offers a **total system solution** that can be brought to market very quickly, offering unmatched value in the multiplexing marketplace.



COST

E-PLEX® utilizes a next-generation, low-cost infrastructure designed to supply power and data over simple, inexpensive wires. Hardware and connections are extremely low-cost. An E-PLEX® system is not burdened with excess cost and is therefore dramatically less expensive than alternatives.

INTEGRATION

From the ground up, E-PLEX® has been designed with an open architecture that can integrate numerous, traditionally separate, systems into a seamless solutions. E-PLEX® offers energy management solutions, HVAC, lighting and audio/video integration

DESIGN & INSTALLATION

E-Logic is a software design aid that makes deploying E-PLEX® a snap. With just two wires, an E-PLEX® installation is too easy. E-PLEX® dramatically reduces the cost typically associated with the design and installation process.

ENERGY MANAGEMENT

Long after the novelty of other systems will have worn off, E-PLEX® will be offering a definitive payback given its ability to reduce overall energy consumption. Being green and saving money never felt this good!

SOPHISTICATION

All consumers are anxious to get the most for their investment. While premium systems offer undeniable appeal, few can justify the cost. E-PLEX® is the first technology to offer sophisticated, intuitive control systems at a price that boat manufacturers can afford. Why spend more when E-PLEX® offers so much for so much less!

SERVICE & SUPPORT

ED&D offers design support, training and service that is second to none. Web-based tools support troubleshooting and diagnostics once the system is deployed into the dealer network.

PROVEN TECHNOLOGY

The E-PLEX® technology was originally developed and deployed in the nuclear power plant industry. The technology has been at work, around the world for over a decade. In the building control, marine and motorcoach industries, E-PLEX® has revolutionized the way complex automation and control systems are deployed.

Interior and exterior touchscreen LCD displays provide a centralized user interface to access critical information and control functions for all of the E-PLEX® integrated systems on the boat. Each system page provides the boat owner with instant status of the listed circuits via colored text and button indicators, as well as precise measurements including voltage, amperage, frequency and fluid levels.

AC Systems :

- Display AC system information including voltage, amperage, frequency for shore cords, generators, and transfer switches.
- Electronically control and monitor AC circuits.
- Electronically control and monitor the transfer switches between shore and generator.



DC Systems :

- Display DC system information including voltage, amperage, frequency for port and starboard battery banks
- Electronically control and monitor DC circuits
- Display battery switch status for 12V and 24V systems.
- Electronically control and monitor the main battery switches, port and starboard, 12V and 24V systems.
- Monitor helm systems



Lighting :

- Electronically control and monitor lighting circuits throughout the boat.
- Dim lighting circuits by simply pressing and holding the corresponding lighting circuit button.
- Scene presets provide the boat owner the ability to “memorize” the lighting levels for specific areas of the boat, or save settings for the entire boat.





Heating, Ventilation, Air Conditioning :

- Integration of single or multi-zone HVAC systems.
- Electronically control and monitor multiple room temperatures, control set points and adjust modes from any user interface in the boat.
- Electronically control and monitor the transfer switches between shore and generator.
- Zone presets provide the boat owner the ability to “memorize” the HVAC settings based on the time of day for specific areas of the boat, or save settings for the entire boat.



Tanks :

- Electronically control and monitor water, fuel and macerator pumps, including auto shutoff capabilities
- Fresh water and fuel bar graphs display % full in 1% increments
- Waste water bar graphs display 0%, 50%, and 100% levels only

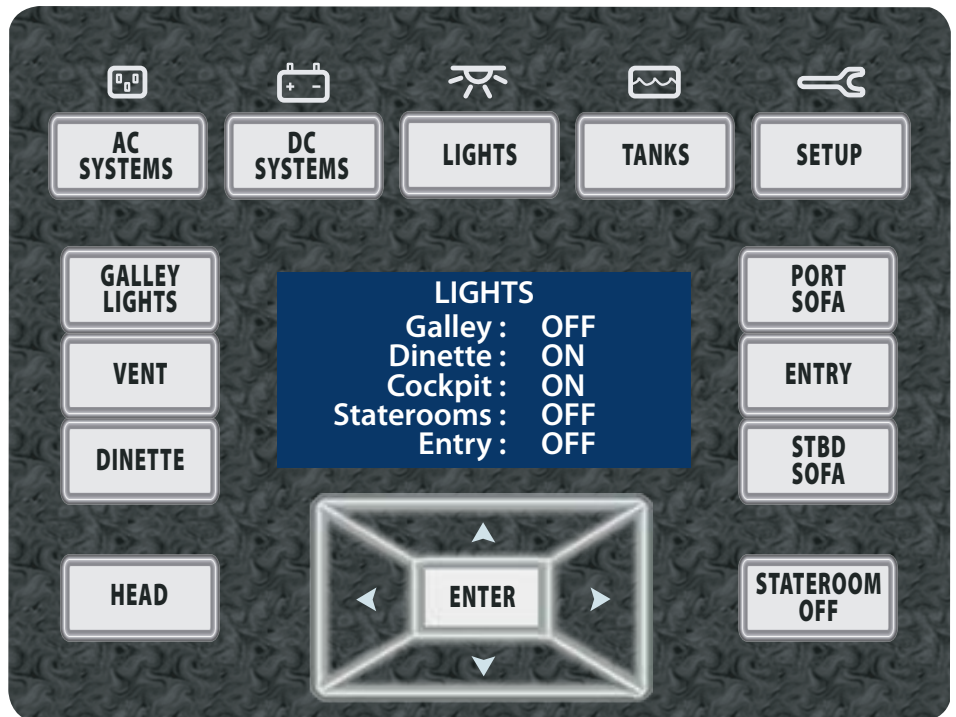


Generators :

- Electronically control and monitor the bilge blowers and battery switches on the boat.
- Electronically control and monitor the generator including start, stop and emergency start.

Electronic Control Module :

- The “clock” is the system’s master controller, providing full system control with master programming, diagnostics, and troubleshooting from one centralized location.
- 128 character alpha-numeric display shows status of the following via selection of the proper touch button
- Provides similar monitor and control functions as the LCD touch screens on the main distribution panel
- Arrow keypad and Enter buttons allow for scrolling and selecting of various sub-menus.



Rocker Switch Panels :

- The RSP is a digital switching interface which controls the functionality of systems integrated with E-PLEX®.
- Programmable 64-color pallette LED backlighting provides status indication.





149CT30

The 149CT30 is a 30 amp relay for turning ON/OFF individual circuits.



367TPD & 416TPS

The size of a light switch, the 416TPS (touch panel switch) provides on/off and dimming controls for lighting and equipment, with 6 LEDs and an EL backlight.

Similar to the 416TPS, the 367TPD provides on/off and dimming controls for lighting and equipment, with the addition of a four-digit LED display.



356DRIM

The 356DRIM (dual input relay module) has two relay outputs for DC power control and four digital inputs which are programmable, active high/low with dual color status indicators.



331BMI & 336PFM

The 331BMI delivers energy monitoring for DC power systems, while the 336PFM provides energy monitoring for AC power systems.

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