



Integrated Process Controls  
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## ISOFuel Panel Design

ISOFuel panels consolidate fuel isolation and multiple pump toggling into one panel. Fuel feed is accomplished through load centers while neutral breaking and fuel isolation occurs via relays. Functionality can be expanded to other area as well such as lighting control and data transmission.

## UL508a

UL508a is the industry standard for safety processes developed by Underwriters Laboratory. UL508 certification is a requirement in many states, and PATCO offers that certification with every panel we build. Panels are developed and built in our shop, then either shipped to your site for installation or installed by PATCO technicians.

## 2011 National Electrical Code Compliance

**Data, Crind, and Intercom Connections:** ISOFuel uses relays to break each of these signals to the dispenser. As such, one work switch breaks all power to the dispenser or submersible.

**Work Switches:** ISOFuel has work switches for each dispenser and submersible pump. These work switches break all power to the designated device, protecting maintenance professionals when they work on the dispensers or submersibles. [2011 NEC compliance mandates this capability.](#)

**Power Distribution:** All power for dispensers, submersibles, monitoring systems (i.e. Veeder, Root, etc.), and power for bio diesel panels is contained within and distributed by one panel - eliminating the need to look for breakers in multiple panels.

**Low Voltage Control Circuit:** ISOFuel offers a 24VDC control circuit for the entire panel outside the switch legs returning from the dispenser, providing 24VDC emergency stop circuit and emergency stop buttons outside of line voltage.

**Surge Suppression:** ISOFuel comes standard with surge suppression protecting the panel and items it controls.

**Standardized Color Coding and Labeling:** ISOFuel follows a standard operating protocol utilizing standard colors for STP signals. For example, we use yellow for unleaded, red for super unleaded and blue for diesel. These color coded terminals and labels speed up installation for technicians in the field. They pull standard colors for both STP signals and power wires, keeping dispenser terminations neat and orderly.

**Simplicity:** ISOFuel installations is simplicity at its best. After being mounted on the wall, power is fed through the top of the panel and each dispenser and pump is connected and terminated through the bottom. Also, custom drawings are included with each panel for onsite modifications.

## Cost & Space Savings

- Eliminates the need for additional load centers and associated piping
- Eliminates the need for read jacket contactors and associated piping
- Eliminates the need for terminal power supplies from external circuit breakers

